

# Diving Equipment Authorized for Navy Use

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**Director of Ocean Engineering  
Supervisor of Salvage and Diving  
SEA 00C**



**DIVING EQUIPMENT  
AUTHORIZED FOR  
U.S. NAVY USE**

**15 May 1997**

10560  
Ser 00C/3112  
15 May 97

Subj: DIVING EQUIPMENT AUTHORIZED FOR U.S. NAVY USE

Ref: (a) NAVSEA 0994-LP-001-9010, U.S. Navy Diving Manual  
(Volume 1, "Air Diving")  
(b) NAVSEA 0994-LP-001-9020, U.S. Navy Diving Manual  
(Volume 2, "Mixed Gas Diving")

Encl: (1) Diving Equipment Authorized for Navy Use Listing  
(2) Diving Equipment Authorized for Navy Use Technical  
Support

1. Purpose. To promulgate enclosures (1) and (2), defining the list of Diving Equipment Authorized for U.S. Navy Use (ANU), with a listing of technical points of contacts for diving equipment.

2. Cancellation. NAVSEAINST 10560.2C of 19 September 1994.

3. Background. OPNAVINST 3150.27 (series) requires Commander, Naval Sea Systems Command (NAVSEA 00C) to prepare and publish a list of approved diving equipment.

4. Definition. ANU denotes selected diving equipment, tools and accessories which have undergone design safety reviews, testing and evaluation to ensure diver safety and acceptability. The ANU process addresses three basic categories of equipment:

Category I. Life support diving equipment (e.g., regulators, compressors).

Category II. Non-life support underwater equipment which is potentially hazardous to the diver (e.g., explosively-actuated tools, surface-powered electrical tools, hydraulic chain saws).

Category III. Non-life support accessory equipment which enhances mission accomplishment but is not considered hazardous or essential to safe diving operations. This equipment has been tested or developed by the Navy and in most cases directly supported by the supply system. Other non-supply system supported commercial items are authorized provided they are properly maintained in accordance with the manufacturers requirements.

5. Discussion. Prior to acceptance for use by the U.S. Navy, life support diving equipment must undergo physical and physiological testing and evaluation. This testing and evaluation encompasses the entire range of equipment operation and is conducted under the auspices of the Navy Experimental Diving Unit or other designated testing activity. Potentially hazardous, non-life support equipment, at a minimum, will undergo

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a design safety review, or testing and evaluation, or both as appropriate. NAVSEA 00C will conduct a review of all test results, design studies, and documentation to determine acceptability of the equipment for use by Navy divers. Reliability and maintainability considerations are as important as operability and safety. Additionally, diving accessory items which have been proven safe and operationally adequate are listed as recommended items for procurement (e.g., divers tools that do not pose a hazard, hydraulic and pneumatic power sources for tools, cameras, wet suits, fins, masks). The absence of an item from this list does not prohibit its procurement providing it is similar to other commercially recognized items, poses no safety hazard to divers and is not classified as a category I or II item. Where appropriate, Navy standard stock numbers and specifications for equipment and components are listed in enclosure (1).

#### 6. Scope.

a. This letter applies to all U.S. Navy commands and activities conducting diving operations. Authorized category I life support diving equipment, category II non-life support diving equipment, and category III non-life support diver accessory items are identified in enclosure (1).

b. As stated in paragraph 4, above, enclosure (1) contains a list of selected diving equipment, tools and accessories which have undergone evaluation, thereby ensuring diver safety and acceptability. However, inclusion on this list in no way constitutes a commercial endorsement.

#### 7. Policy.

a. Only diving life support equipment (Category I) listed in enclosure (1) will be procured and used, in accordance with references (a) and (b), by U.S. Navy diving activities, except as noted in paragraph 7d. Certified diver's life support systems, and surface supplied diving systems are not listed in this document. Authorization for Navy use is implicit in their certified status. Class certified UBAs are listed in this document.

b. For electrically (greater than 7.5 VAC or 30 VDC) or explosively actuated equipment, or other non-life support equipment which presents a potential hazard to the diver (Category II), only equipment identified in enclosure (1) will be procured and used by U.S. Navy diving activities.

c. Procurement and use of the specific category III items listed in enclosure (1) is encouraged. However, activities may procure any commercially available equipment similar to that listed as category III. Prior to the purchase of any equipment not specifically listed as Category I or II, or for questions regarding applicability of a particular tool or item, contact the

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Supervisor of Diving, Fleet Liaison Representative (SEA 00C32), or the technical point of contact listed in enclosure (2).

d. The Navy Experimental Diving Unit and other activities, as designated in writing by NAVSEA 00C are authorized to procure and use category I and II equipment not listed in enclosure (1) for the purpose of research, development, testing and evaluation programs.

8. Action. U.S. Navy commands and activities authorized to conduct diving operations will ensure that procurement and use of diving equipment is conducted strictly in accordance with the policy set forth herein.

9. Any questions regarding applicability of a particular tool or equipment item will be directed to the Supervisor of Diving, Fleet Liaison Representative (SEA 00C32) at commercial (703) 607-2766 or DSN 327-2766, or the applicable technical point of contact listed in enclosure (2).

R. S. McCORD  
Director of Ocean Engineering  
Supervisor of Salvage and Diving

Distribution:  
Diving Command Mailing List  
00C CD-ROM

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Category I. Life support diving equipment (e.g., regulators, compressors).

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## Diving Equipment ANU – Change Summary

The following represents the changes authorized since the release of the 15 May 1997 addition of the ANU. Changes are listed here in purple text.

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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### 1.1 Buoyancy Compensators and Life Preservers

CAT I 1.1.3	BUOYANCY COMPENSATOR COMMERCIAL	SCUBA PRO	MILITARY CLASSIC BLACK BC (JACKET TYPE, P/N 21-341-X00)	AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. <b>THE FINAL PART OF THE PART NUMBER IS THE SIZE, AND WILL THEREFORE VARY.</b>
CAT I 1.1.4	BUOYANCY COMPENSATOR 9E 4220-01-005-0773	U.S. DIVERS	<b>NEW NO.: 3940-50 OLD NO.: 3940-00</b> (MILITARY) YOKE STYLE BC	AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES.
CAT I 1.1.5	BUOYANCY COMPENSATOR COMMERCIAL	NATIONAL DRAEGER,INC	<b>SHADOW LIFE VEST MK 6 MOD 0 PN 4053603</b>	AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. <b>MK 6, MOD 0 IS THE NEW DESIGNATOR FOR MODEL 806LM.</b>
<b>CAT I 1.1.12</b>	<b>BOUYANCY COMPENSATOR COMMERCIAL</b>	<b>SCUBAPRO</b>	<b>MODEL # 21.411</b>	<b>AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES.</b>
CAT I 1.1.5	BUOYANCY COMPENSATOR COMMERCIAL	NATIONAL DRAEGER,INC	<b>SHADOW LIFE VEST MK 6 MOD 0 PN 4053603</b>	AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. <b>MK 6, MOD 0 IS THE NEW DESIGNATOR FOR MODEL 806LM.</b>
CAT I 1.1.6	LIFE PRESERVER, LOW MAGNETIC SIGNATURE COMMERCIAL	NATIONAL DRAEGER,INC	<b>SHADOW LIFE VEST MODEL 806LM PN 4053603</b>	AUTHORIZED TO 190 FSW.



### 1.3 Cylinders, Manifolds and Backpacks, SCUBA

#### Maintenance and Inspection note:

1. During 1994, the Department of Transportation discovered ruptures involving two DOT-2AL cylinders made of aluminum alloy 6351-T6 and advised owners of these cylinders to follow certain precautionary measures.
2. DOT-3AL and DOT-E 7235 cylinders may be constructed of aluminum alloy 6351-T6. If you have a DOT-3AL or DOT-E 7235 SCUBA cylinder which meets any of the following criteria, contact the manufacturer to determine if your cylinder is made of aluminum alloy 6351-T6.

- a. Manufactured by LUXFER USA before the dates listed below:

<u>TYPE</u>	<u>PART NUMBER</u>	<u>DATE MANUFACTURED</u>
30 AND 63 CU FT	S30, S63	5/88
40 CU FT	S40	6/88
50 AND 92 CU FT	S50, S92	4/88
72 AND 100 CU FT	S72, S100	8/87
80 CU FT	S80	1/88
80.8 CU FT	S80.8	5/87

- b. Manufactured by Cliff-Impact Division of Parker Hannifer Corp before July 1990.
  - c. Manufactured by any other company in the United states, except Catalina Cylinders (A Division of Aluminum Precision products INC.), before February 1990.
  - d. Manufactured outside the United States.
3. If the cylinder is made of aluminum alloy 6351-T6, perform a visual inspection of the cylinder for cracks and crack indications whenever the cylinder valve is removed. Focus inspection on the threads and the interior of the cylinder neck and shoulder. Contact the cylinder re-tester, distributor or manufacturer for further information regarding visual inspection and rejection criteria.

This note is promulgated from Diving Advisory 94-21.

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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#### 1.3 Cylinders, Manifolds and Backpacks, SCUBA (Continued)

CAT I 1.3.18	COMMERCIAL	LUXFER	SCUBA CYLINDER S-19 (19 CUFT) S-30 (30 CUFT)	THESE FLASKS MAY BE USED WITH MK 20 OR MK 21 TO 60 FEET OF SEA WATER IN SITUATIONS WHERE NO EGS IS REQUIRED BY THE USN DIVING MANUAL. THE EXPECTED DURATIONS OF THE CYLINDERS AT 60 FSW IS FIVE MINUTES FOR THE 19 CUBIC FOOT (S-19), AND SEVEN MINUTES FOR THE 30 CUBIC FOOT (S-30).
CAT I 1.3.19	COMMERCIAL	SHERWOOD	SCUBA CYLINDER AL0030 (30 CUFT)	THIS FLASK MAY BE USED WITH MK 20 OR MK 21 TO 60 FEET OF SEA WATER IN SITUATIONS WHERE NO EGS IS REQUIRED BY THE USN DIVING MANUAL. THE EXPECTED DURATION OF THE CYLINDERS AT 60 FSW IS SEVEN MINUTES FOR THE 30 CUBIC FOOT (AL0030).

#### 1.4 Regulators, Cold Water Service

CAT I 1.4.1	REGULATOR, COLD WATER COMMERCIAL 9C-4220-00-623-7280	POSEIDON	ODIN PART # 3960-80 or old number 2960-80	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER. SHALL BE FITTED WITH AN ODIN OCTOPUS 2ND STAGE REGULATOR (PN 29700000) AND 1ST STAGE ANTI-FREEZE CAP PART NUMBER 1286. NEWER VERSION ODIN IS CALLED JETSTREAM.
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CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
CAT I 1.4.2	REGULATOR, COLD WATER COMMERCIAL 9C-4220-00-367-7062	POSEIDON	CYKLON 5000 PART # 3950-80 or old number 2950-80	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER. SHALL BE FITTED WITH A CYKLON OCTOPUS 2ND STAGE REGULATOR (PN 29810000) AND 1ST STAGE ANTI-FREEZE CAP PART NUMBER 1286.
CAT I 1.4.3	REGULATOR, COLD WATER COMMERCIAL	POSEIDON	THOR PART # 2940-80	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER. SHALL BE FITTED WITH A ODIN OCTOPUS 2ND STAGE AND 1ST STAGE ANTI- FREEZE CAP PART NUMBER 1286. NO LONGER MANUFACTURED BUT REMAINS AUTHORIZED FOR USE.
CAT I 1.4.4	REGULATOR, COLD WATER COMMERCIAL	POSEIDON	CYKLON 300 PART # 2980-80	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER. SHALL BE FITTED WITH A CYKLON OCTOPUS 2ND STAGE REGULATOR AND 1ST STAGE ANTI-FREEZE CAP PART NUMBER 1286. NO LONGER MANUFACTURED, BUT REMAINS AUTHORIZED FOR USE.
CAT I 1.4.8	REGULATOR, 2ND STAGE & FULL FACE MASK GENERAL COMMERCIAL	AGA	MK-IIG AGA	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER, WHEN MATED WITH THE 1ST STAGE OF COLD WATER APPROVED POSEIDON ODIN. A COLD WATER APPROVED OCTOPUS 2ND STAGE REGULATOR SHALL ALSO BE FITTED TO THE 1ST STAGE OF ALL AGA/COLD WATER REGULATOR SYSTEMS. MAY ALSO BE MATED TO THE 1ST STAGE OF US DIVERS PRO DIVER WITH COLD WATER KIT INSTALLED, US DIVERS PRO DIVER IS NO LONGER MANUFACTURED BUT CONTINUES TO BE AUTHORIZED FOR THIS SERVICE. THE MK IIG IS AUTHORIZED FOR USE WITH THE MK 20 DIVING SYSTEM, BUT THE POSITIVE PRESSURE CONFIGURATION SHOULD BE USED IN CONTAMINATED WATER OR POTENTIALLY CONTAMINATED ATMOSPHERES SUCH AS ENCLOSED SPACE DIVING.

#### 1.10 Vehicle, Diver Propulsion

CAT II 1.10.2	COMMERCIALY AVAILABLE	FARALLON USA, INC.	MK V, MK VI	NOW BEING SUPPORTED BY FARALLON USA INC; DIVER PROPULSION VEHICLES. PO BOX 450505, ATLANTA, GA 31145 PHONE (770) 414-0550.
CAT II 1.10.3	COMMERCIALY AVAILABLE	FARALLON USA, INC.	MK VIII	FOLLOW ON REPLACEMENT MODEL TO OLDER FARALLON MODELS MK V AND MK VI.

#### 3.1 Diving Harness / Boots

CAT III 3.1.7	COMMERCIAL	MARVEL	SERVUS BOOT PART NUMBER 21622	FULL SIZES 6 - 13 MARVEL (609) 962-8719
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#### 3.4 Diving Helmets and Other Authorized for Use and Class Certified Systems

CAT I 3.4.1	NAVSEA CONTROLLED	INTERSPIRO	MK 20 SURFACE SUPPLIED DIVING MASK	CLASS CERTIFIED, OPERATIONAL DEPTH/DURATION CAPABILITY PER MK 20 O&M MANUAL S600-AK-MMO-010 (REV 1). PROGRAM MANAGER IS NAVSEA CODE 00C33, (703) 607-2767, DSN 327-2767. ITEM 1.4.8, MK IIG AGA, IS AN AUTHORIZED MASK WITH THIS CONFIGURATION, BUT THE POSITIVE PRESSURE CONFIGURATION SHOULD BE USED IN CONTAMINATED WATER OR POTENTIALLY CONTAMINATED ATMOSPHERES SUCH AS ENCLOSED SPACE DIVING.
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CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
CAT I 3.4.2	NAVSEA CONTROLLED APL: 990010096	DIVING SYSTEMS INTERNATIONAL (DSI)	MK 21 SURFACE SUPPLIED DIVING HELMET	CLASS CERTIFIED, OPERATIONAL DEPTH/DURATION CAPABILITY PER MK 21 O&M MANUAL S6560-AG-OMP-010 (REV 1). PROGRAM MANAGER IS NAVSEA CODE 00C33, (703) 607-2767, DSN 327-2767.
CAT I 3.4.3	COMMERCIAL	DIVING SYSTEMS INTERNATIONAL (DSI)	MANIFOLD BLOCK ASSEMBLY	APPROVED FOR USE WITH UBA MK 20 FOR PROVIDING EGS CAPABILITY WITHIN MK 20 OPERATING LIMITS.
3.4.4	COMMERCIAL	DIVING EQUIPMENT COMPANY OF AMERICA (DECA)	HOSE, QUICK DISCONNECT, STAINLESS STEEL DE 255-025 NS	APPROVED FOR USE WITH UBA MK 21 MOD 1 FOR EGS WHIP. APPROVED FOR USE WITH UBA MK 20 MOD 0 FOR EGS WHIP WHEN USED WITH DSI MANIFOLD BLOCK ASSEMBLY.
CAT I 3.4.5	COMMERCIAL	DIVING EQUIPMENT COMPANY OF AMERICA (DECA)	HOSE, QUICK DISCONNECT, BRASS DE 255-020 NS	APPROVED FOR USE WITH UBA MK 21 MOD 1 FOR EGS WHIP. APPROVED FOR USE WITH UBA MK 20 MOD 0 FOR EGS WHIP WHEN USED WITH DSI MANIFOLD BLOCK ASSEMBLY.
CAT II 3.6.12	COMMERCIAL	STRENGTH/ COMMUNICATIONS CABLE/NEDU CODE 03D	STRENGTH/ COMMUNICATIONS CABLE	NAVSEA DWG's 592-5939961, 592-5939962 AND 592-5939963 REFER.

#### 4.3 Through Water Communicators

CAT III 4.3.12	COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS	MK 2 DCI TWO DIVER RADIO SET	MK 2-DCI IS SURFACE UNIT, MK 1-D-A IS DIVER UNIT, MK 1-D/S IS WALK ABOUT MIC UNIT. COMPATIBLE WITH AGA FFM. THE MK 1 DCI SURFACE UNIT IS NO LONGER MANUFACTURED.
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#### 5.2 5000 PSIG H. P. Air Compressors

CAT I 5.2.11	COMMERCIAL	BAUER	MARINER, MODEL E1/3,D, G, 5000 PSI, 7 SCFM	GENERAL NOTES APPLY. COMPRESSOR PREVIOUSLY RATED AS 3000 PSIG SERVICE. ENSURE ALL PIPING, FLASKS AND ASSOCIATED PRESSURE COMPONENTS ARE ALSO RATED TO 5000 PSIG SERVICE PRIOR TO USE.
CAT I 5.2.12	COMMERCIAL	MAKO	KA-7, BA-D, 5000 PSI, 8SCFM	GENERAL NOTES APPLY

#### 5.3 4500 and 3000 PSIG H. P. Air Compressors

CAT I 5.3.17	COMMERCIAL H.P. COMPRESSOR	MAKO	5405 HP COMPRESSOR 3000 PSI 8 – 10 SCFM	GERERAL NOTES APPLY
CAT I 5.3.18	H.P. COMPRESSOR COMMERCIAL NSN 9C4310-01-107-8006	MAKO	KA7-DA HP COMPRESSOR 3000 PSI 5 SCFM	GERERAL NOTES APPLY

### 6.3 SODALIME CARBON DIOXIDE ABSORBENTS

GENERAL NOTE:.

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
CAT I 6.3.1	COMMERCIAL ITEM OR STOCK NO. 6810-01-113-0110	W. R. GRACE & CO.	HIGH PERFORMANCE SODASORB, REGULAR	THIS IS A 4 - 8 MESH SODALIME
CAT I 6.3.2	COMMERCIAL ITEM OR STOCK NO. 6810-01-113-0110	MOLECULAR PRODUCTS LTD.	SOFNOLIME 408 MESH NI L GRADE	THIS IS A 4 - 8 MESH SODALIME. PRODUCT IS DISTRIBUTED BY THE O.C. LUGO CO.
CAT I 6.3.3	COMMERCIAL ITEM OR STOCK NO. 6810-01-412-0637	MOLECULAR PRODUCTS LTD.	SOFNOLIME 812 MESH NI D GRADE	THIS IS A 10 - 14 MESH (U.S.) SODALIME. PRODUCT IS DISTRIBUTED BY THE O.C. LUGO CO.

GENERAL NOTE FOR SODALIME:: ALL SODALIMES MAY NOT BE APPROVED FOR ALL APPLICATIONS. CHECK WITH CERTIFICATION AUTHORITY OR TECHNICAL MANAUAL FOR SYSTEM PRIOR TO ORDERING OR USING A PARTICULAR PRODUCT.

#### SECTION 7, RECOMPRESSION CHAMBER INSTRUMENTATION & EQUIPMENT

CAT II 7.1.4	9C-4210-01-316-0211	AMRON CORP.	FIRE EXTINGUISHER, MODEL 240	AMRON MODEL 240 MANUFACTURED WITH RELIEF VALVE AND PRESSURE GAUGE SPECIFICALLY FOR HYPERBARIC SERVICE.
CAT II 7.1.5	COMMERCIAL	3D INSTRUMENTS	PRESSURE COMPARISON DEVICE, 8106-100/ VACUUM -60 PSI, 8103-100/ 0-150 PSI, 8105-300/ 0-3000 PSI	USE ONLY DISTILLED WATER AS HYDRAULIC MEDIUM FOR GAUGE COMPARISON TO PREVENT GAUGE CONTAMINATION. FOR COMPARISON ONLY, NOT SUITABLE FOR CALIBRATION.
CAT II 7.1.6	COMMERCIAL	ANALOX	TEMP MONITOR, ANALOX 4000 SA1A14B1P/ SA1A14A1P	SA1A14B1P READS IN DEGREES FAHRENHEIT. SA1A14A1P READS IN DEGREES CENTIGRADE.
CAT II 7.1.7	COMMERCIAL	COLE PARMER	TEMP MONITOR, TYPE J-K8521-02	
CAT II 7.1.8	TEMP MONITOR, COMMERCIAL	ANALOGIC CORP.	TEMP MONITOR, MEASUROMETER II	
CAT II 7.1.9	COMMERCIAL & 8415-01-289-9707 GEL STRIPS: 8415-01- 289-9796	STEELE, INC.	COOLING VEST, SA1140-FR	COOLING VESTS SHOULD BE CONSIDERED FOR CHAMBERS IN WHICH A HEAT PROBLEM MIGHT REASONABLY OCCUR, BASED ON THE OPERATIONAL ENVIRONMENT AND LEVEL OF INTERNAL & EXTERNAL CHAMBER TEMPERATURE CONTROL AVAILABLE, i.e., HEATER/CHILLER SYSTEM, AIR CONDITIONED SHELTER, EXTERNAL WATER DELUGE, ETC. GEL STRIPS, PN: SA1149/NSN 8415-01-289-9796 ARE ALSO REQUIRED FOR THIS SYSTEM.

# SECTION 7, RECOMPRESSION CHAMBER INSTRUMENTATION & EQUIPMENT (CONTINUED)

CAT I 7.1.10	COMMERCIAL	AMRON INTERNATIONAL	OXYGEN TREATMENT PANEL, MODEL 8890	AUTHORIZED FOR FITTED FACILITY RECOMPRESSION CHAMBERS ONLY, <u>NOT FOR USE IN PORTABLE RECOMPRESSION CHAMBERS</u> . FOR USE IN HYPERBARIC CHAMBERS DURING TREATMENTS. AUTHORIZED WITH FOLLOWING ACCESSORIES: 1. OXYGEN THERAPY HOOD (SL-1002) 2. OXYGEN THERAPY HOOD (MODEL 8891) 3. NECK SEAL WITH MOUNT RING (SL-1001) 4. HUMIDIFIER (8890-0063)
CAT II 7.1.11	COMMERCIAL	OMNIGLOW CORP. NOVATO, CA	PART NUMBER 9-27021 CYALUME NIGHT STICKS (CHMLT)	CHMLTs AUTHORIZED AS AN EMERGENCY LIGHTING SOURCE IN HYPERBARIC CHAMBERS. DO NOT STORE CHMLTs IN CHAMBERS; INSTEAD, THEY SHOULD BE PLACED IN A TREATMENT CHAMBER ONLY WHEN NEEDED TO PROVIDE ILLUMINATION DURING A TREATMENT.
CAT II 7.1.12	COMMERCIAL	AMRON	9100 ICS CHAMBER CONDITIONING UNIT	P/N 9100RMK IS THE AUTHORIZED REPLACEMENT MOTOR KIT.

# SECTION 8, GAS ANALYSIS EQUIPMENT

CAT II 8.1.9	OXYGEN ANALYZER, COMMERCIAL	ANALOX	ANALOX 100M MINI O2 PORTABLE O2 ANALYZER	DESIGNED TO VERIFY OXYGEN LEVELS IN NITROX AND HELIOX CYLINDERS, MONITOR COMPRESSOR OUTPUT FOR O2 LEVELS IN DIVING CHAMBERS, AND IN OTHER MEDICAL APPLICATIONS.
CAT II 8.1.10	CO2 ANALYZER COMMERCIAL	AMRON INTERNATIONAL	ANALOX (501) MINI-CO2 PORTABLE CARBON DIOXIDE ANALYZER	OPERATES UNDER TWO RANGES: 0.1 PERCENT TO 5 PERCENT CO2, 0.01 PERCENT TO 2 PERCENT CO2. DIGITAL READOUT WITH AUDIBLE ALARM. WATER RESISTANT, RECHARGEABLE BATTERIES.
CAT II 8.1.11	CO2 ANALYZER COMMERCIAL	GEOTECHNICAL INSTRUMENTS INC.	ANAGAS MODEL HB 1.1A	MEASURES CO2 UP TO 2.5 PERCENT OF SEV AT 1 TO 6 ATMOSPHERES ABSOLUTE (ATA). THE ANAGAS MODEL HB 1.1A IS A SPECIFICALLY MODIFIED UNIT FOR NAVY USE, AND IS DESIGNED FOR USE INSIDE CHAMBERS USE IN HIGH HUMIDITY, I.E., DDS. NOTE: ONLY THE ANAGAS MODEL HB 1.1A (ID'D BY A BLUE CASE) IS AUTHORIZED.
CAT II 8.1.12	CO2 MONITOR, COMMERCIAL	ANALOX	MODEL 5D	FIXED INSTALLATION OPERATION UNDER NORMAL ATMOSPHERIC PRESSURE (1 ATA) CONDITIONS. ORDERED IN 1 OF 9 RANGE LIMITS AND 1 OF 2 RANGE MEASUREMENTS (PPM OR %). 2000,5000 or 10000 PPM OR 1,2,5,10,20 or 100%. AUDIBLE ALARM. LCD DISPLAYS. REMOTE ALARM REPEATER.
CAT II 8.1.13	CO MONITOR, COMMERCIAL	ANALOX	MODEL 3D	FIXED INSTALLATION OPERATION UNDER NORMAL ATMOSPHERIC PRESSURE (1 ATA) CONDITIONS. RANGE OF MEASUREMENT CAN BE SPECIFIED AT TIME OF ORDERING. AUDIBLE ALARM. LCD DISPLAY.

# 9.3 Tools

CAT III 9.3.17	COMMERCIALLY AVAILABLE IAW NAVSEA DWG 5366565, NSN: 9Q- 5130-01-208-7754, APL: 990010039	GRINDER, HYDRAULIC STANLEY OR DIVER PREFERENCE	GR24301	GENERAL NOTE 1 APPLIES. MAX CUMULATIVE OPERATING TIMES PER DIVER PER 24 HOURS: MK-20, 30 MINUTES; MK 21, 3 HOUR 22 MINUTES
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CAT III 9.3.23	COMMERCIALLY AVAILABLE IAW NAVSEA DWG: 5367230, APL:990010040-2, NSN: 9Q-5130-01-204-1784	IMPACT WRENCH, HEAVY DUTY, HYDRAULIC STANLEY OR DIVER PREFERENCE	IW20360 5/8 IN.	GENERAL NOTE 1 APPLIES, MAX CUMULATIVE OPERATING TIMES PER DIVER PER 24 HOURS: MK-20, 40 MINUTES; MK 21, 1 HOUR 25 MINUTES
CAT III 9.2.18	COMMERCIAL	DEEPSEA POWER AND LIGHT SEESNAKE PIPE INSPECTION EQUIPMENT	KD-VARIOUS DEPENDENT ON REEL LENGTH	FOUR INTERCHANGEABLE REELS AND CONTROLLERS. REELS – 200' SEESNAKE, PN 744-00301-08 325' SEESNAKE, PN 744-00301-09 100' MINI SEESNAKE, PN 744-01201-01 200' MINI SEESNAKE, PN 744-01201-02 CONTROLLERS – POWER SUPPLY ONLY, PN 742-00901-01 MONITOR NO VCR, PN 742-010-001-01 MONITOR W/ VCR, PN 742-013-003-01 VIDEO SYSTEM MANAGER, PN 742-008-001-01
CAT II 9.2.19	COMMERCIAL	UNDERWATER TELEVISION SYSTEM/KONGSBER G SIMRAD	MODEL OE 9021	CONTROL UNIT MODEL OE 1261 MUST BE ORDERED WITH DUCTS II LINE INSULATION MONITOR (PART NUMBER 1263-6011) WITH TRIP CURRENT SETTINGS IAW ANU STANDARDS FOR DUCTS II. THE CONTROL UNIT MUST ALSO BE ORDERED WITH A MODIFIED POWER INPUT CORD FITTED WITH GFCI PROTECTOR (PART NUMBER 302-0053-00).

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<b>1.1 Buoyancy Compensators and Life Preservers</b>				
CAT I 1.1.1	BUOYANCY COMPENSATOR 9C 4220-01-227-7082 AEL: 2-90000155	SEATEC	MILITARY SUNFISH, PRO BLACK CORDURA W/INFLATOR 1040.08	AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. CHROME PLATED BRASS INSERT (PN 2002.135) IS USED TO REPLACE PLASTIC INSERT (PN 2002-13) FOR THE INFLATOR MECHANISM.
CAT I 1.1.2	BUOYANCY COMPENSATOR COMMERCIAL 4220-01-227-7082	SEATEC	MILITARY SUNFISH, PRO BLACK CORDURA W/INFLATOR 1040.09	AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. CHROME PLATED BRASS INSERT (PN 2002.135) IS USED TO REPLACE PLASTIC INSERT (PN 2002-13) FOR THE INFLATOR MECHANISM.
CAT I 1.1.2.1	BUOYANCY COMPENSATOR COMMERCIAL 4220-01-227-7082	SONIFORM INC.	MODEL SF-1044 FRONT MOUNTED BUOYANCY COMPENSATOR	AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. MUST USE 38 GRAM CO2 CARTRIDGE.
CAT I 1.1.3	BUOYANCY COMPENSATOR COMMERCIAL	SCUBA PRO	MILITARY CLASSIC BLACK BC (JACKET TYPE, P/N 21-341-X00)	AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. <b>THE FINAL PART OF THE PART NUMBER IS THE SIZE, AND WILL THEREFORE VARY.</b>
CAT I 1.1.4	BUOYANCY COMPENSATOR 9E 4220-01-005-0773	U.S. DIVERS	<b>NEW NO.: 3940-50</b> <b>OLD NO.: 3940-00</b> (MILITARY) YOKE STYLE BC	AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES.
CAT I 1.1.5	BUOYANCY COMPENSATOR COMMERCIAL	NATIONAL DRAEGER, INC	<b>SHADOW LIFE</b> <b>VEST MODEL/MK 7</b> <b>MOD 0, PN 4056304</b>	AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES.
CAT I 1.1.6	LIFE PRESERVER, LOW MAGNETIC SIGNATURE COMMERCIAL	NATIONAL DRAEGER, INC	<b>SHADOW LIFE</b> <b>VEST/MODEL</b> <b>806LM (MK 6 MOD</b> <b>0), PN 4053603</b>	AUTHORIZED TO 190 FSW. <b>MK 6 MOD 0 IS THE NEW DESIGNATION FOR MODEL 806LM</b>
CAT I 1.1.7	LIFE PRESERVER 1H-4220-01-213-3533 COMMERCIAL	FENZY	FENZY M-4 FENZY X-4	AUTHORIZED TO 190 FSW. AUTHORIZED REPLACEMENT FOR THE FENZY LIFE PRESERVER CYLINDER IS STEEL FENZY CYLINDER - PN 850230 (BOTTLE WITH VALVE). CYLINDERS WITH AG5(5283) WHICH DO NOT HAVE THE MARKS ARS OR APL ON THE SIDE MAY BE USED UNTIL THEY ARE 10 YEARS OLD.
CAT I 1.1.8	LIFE PRESERVER 3HS1386-01-346-1997 APL: 990010102	SONIFORM, INC EL CAJON, CA	MK 4, PART# 5050-000, OR DWG# 592- 6383528-1	AUTHORIZED TO 200 FSW FOR MK15/16 OPERATIONS . FOR MK 15/16 UBA OPERATIONS, THE MK 4 SHALL BE FITTED WITH 4 (30-34 GRAM) MIL-C-16385 TYPE II CARTRIDGES (9C 4220-00-965-0595). AUTHORIZED TO 190 FSW FOR OPEN CIRCUIT SCUBA OPERATIONS. FOR OPEN CIRCUIT SCUBA OPERATIONS (NOT MK15/16) FOUR (4) 25-28 GRAM MIL-C-25369 TYPE I CARTRIDGES (9C 4220-00-372-0585) MAY BE USED IN LIEU OF FOUR (4) 30-34 GRAM CARTRIDGES. SONIFORM PNEUMATIC INFLATOR MAY BE USED TO CONVERT THE LIFE PRESERVER TO A BUOYANCY COMPENSATOR.

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<b>1.1 Buoyancy Compensators and Life Preservers (Continued)</b>				
CAT I 1.1.9	LIFE PRESERVER 1H-4220-01-221-4012	SMR TECHNOLOGIES ENGINEERED RUBBER PRODUCTS OLDER EDITIONS MADE BY RFI	MODIFIED UDT LIFE PRESERVER PN -110669	AUTHORIZED TO 130 FSW WHEN USED WITH TWO 38 GRAM CO <sub>2</sub> CARTRIDGES. TO ENSURE THAT THE LIFE JACKET DOES NOT OVER INFLATE AT DEPTHS SHALLOWER THAN 33 FSW, PULL ONE ACTUATOR AT A TIME. THE RUBBER SLEEVE CHECK VALVE SERVES NO USEFUL PURPOSE AND SHALL BE REMOVED PERMANENTLY FROM THESE LIFE PRESERVERS. THE MODIFIED UDT IS AUTHORIZED WITH ROBERT'S VALVE 840AM /AMS IN CONJUNCTION WITH SEATEC CO2 CARTRIDGE 9C-4220-01-045-5645 SMR PART NUMBER: 5SV1049, OLD B.F. GOODRICH NUMBER: 82-63-1013-02-1
CAT I 1.1.10	LIFE PRESERVER 3H-4220-01-263-1988 APL:990010054	NATIONAL DRAEGER,INC	SECUMAR TSK 2/42 LIFE JACKET, PN 4053113	AUTHORIZED FOR USE WITH LAR V ONLY, MAXIMUM DEPTH OF 50 FSW. REPLACEMENT AIR INFLATION SYSTEM PART NUMBER 806-015 IS AUTHORIZED WITH THE SECUMAR TSK 2/42 LIFE JACKET
CAT I 1.1.11	LIFE VEST 9C-4220-00-276-8929	STOCK ITEM	UDT LIFE VEST MIL-L-16383	AUTHORIZED FOR SURFACE SWIMMING AND FOR SCUBA TO 33 FSW ONLY.
CAT I 1.1.12	BOUYANCY COMPENSATOR COMMERCIAL	SCUBAPRO	MODEL # 21.411	AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO <sub>2</sub> CARTRIDGES.

**1.2 Cartridges, CO<sub>2</sub>**

CAT I 1.2.1	CARTRIDGE, CO <sub>2</sub> 9C-4220-00-287-3741	MILITARY SPEC	17-21 GRAM MIL-C-16385 , TYPE I,	NOT AUTHORIZED FOR MK 15/16 UBA OPERATIONS IN THE MK-4 LIFE PRESERVER. SEE NOTES FOR MK-4 LIFE PRESERVER.
CAT I 1.2.2	CARTRIDGE , CO <sub>2</sub> 9C-4220-00-372-0585	MILITARY SPEC	25-28 GRAM MIL-C-25369 TYPE I	NOT AUTHORIZED FOR MK 15/16 UBA OPERATIONS IN THE MK-4 LIFE PRESERVER. SEE NOTES FOR MK-4 LIFE PRESERVER. AUTHORIZED FOR OPEN CIRCUIT SCUBA OPERATIONS WHEN A TOTAL OF 4 ARE INSTALLED IN THE MK-4 LIFE PRESERVER.
CAT I 1.2.3	CARTRIDGE, CO <sub>2</sub> 1H-4220-00-965-0595	MILITARY SPEC	30-34 GRAM UDT CARTRIDGE MIL-C-16385 TYPE II	AUTHORIZED FOR MK 15/16 UBA OPERATIONS, WHEN A TOTAL OF 4 ARE INSTALLED IN THE MK-4 LIFE PRESERVER.
CAT I 1.2.4	CARTRIDGE, CO <sub>2</sub> 9C-4220-00-458-9240	MAR-VEL	16 GRAM LP-316	
CAT I 1.2.5	CARTRIDGE, CO <sub>2</sub> 9C-4220-01-228-5646	MARVEL	25 GRAM LP 325	
CAT I 1.2.6	CARTRIDGE, CO <sub>2</sub> 9C-4220-01-228-5645	SEATEC	38 GRAM	CO <sub>2</sub> CARTRIDGE 9C-4220-01-045-5689 REPLACES THIS ITEM WHEN STOCKS ARE DEPLETED.
CAT I 1.2.7	CARTRIDGE, CO <sub>2</sub> 9C-4220-01-045-5689	MAR-VEL	38 GRAM LP-338	VARIOUS COMPANIES SUPPLY CARTS UNDER THIS NSN.



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1.3 Cylinders, Manifolds and Backpacks, SCUBA

**Maintenance and Inspection note:**

- During 1994, the Department of Transportation discovered ruptures involving two DOT-2AL cylinders made of aluminum alloy 6351-T6 and advised owners of these cylinders to follow certain precautionary measures.
- DOT-3AL and DOT-E 7235 cylinders may be constructed of aluminum alloy 6351-T6. If you have a DOT-3AL or DOT-E 7235 SCUBA cylinder which meets any of the following criteria, contact the manufacturer to determine if your cylinder is made of aluminum alloy 6351-T6.

- Manufactured by LUXFER USA before the dates listed below:

<u>TYPE</u>	<u>PART NUMBER</u>	<u>DATE MANUFACTURED</u>
30 AND 63 CU FT	S30, S63	5/88
40 CU FT	S40	6/88
50 AND 92 CU FT	S50, S92	4/88
72 AND 100 CU FT	S72, S100	8/87
80 CU FT	S80	1/88
80.8 CU FT	S80.8	5/87

- Manufactured by Cliff-Impact Division of Parker Hannifin Corp before July 1990.
  - Manufactured by any other company in the United states, except Catalina Cylinders (A Division of Aluminum Precision products INC.), before February 1990.
  - Manufactured outside the United States.
- If the cylinder is made of aluminum alloy 6351-T6, perform a visual inspection of the cylinder for cracks and crack indications whenever the cylinder valve is removed. Focus inspection on the threads and the interior of the cylinder neck and shoulder. Contact the cylinder re-tester, distributor or manufacturer for further information regarding visual inspection and rejection criteria.

This note is a promulgated from Diving Advisory 94-21.

CAT I 1.3.1	CYLINDER, SCUBA ALUMINUM COMMERCIAL	VARIOUS	DOT SPEC TYPE 3AL (ALUMINUM)	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE ALUMINUM SCUBA CYLINDERS THAT MEET DOT SPECIFICATION TYPE 3AL UP TO AND INCLUDING 3000 PSI SERVICE. SINGLE OR TWIN CYLINDERS, MINIMUM CYLINDER CAPACITY SHALL BE 50 CUFT AT RATED PRESSURE FOR OPEN CIRCUIT SCUBA OPERATIONS. DOT TYPE SP6498 ARE NO LONGER MANUFACTURED BUT ARE AUTHORIZED FOR USE.
CAT I 1.3.2	CYLINDER, SCUBA ALUMINUM , 80 CUFT 9C-4220-01-039-1962	VARIOUS	ALUMINUM 80 CU FT CYLINDER DOT-3AL-3000	
CAT I 1.3.3	CYLINDER, SCUBA STEEL COMMERCIAL	VARIOUS	DOT SPEC TYPE 3AA (STEEL)	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE STEEL SCUBA CYLINDERS THAT MEET DOT SPECIFICATION TYPE 3AA(STEEL). SINGLE OR TWIN CYLINDERS, MINIMUM CYLINDER CAPACITY SHALL BE 50 CUFT AT RATED PRESSURE FOR OPEN CIRCUIT SCUBA OPERATIONS.
CAT I 1.3.4	CYLINDER, COMMERCIAL	CYLINDER, U.S. DIVERS	SCUBA CYLINDER PART NUMBER AL 80 (GRAY) (0755-00)	

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1.3 Cylinders, Manifolds and Backpacks, SCUBA (Continued)				
CAT I 1.3.5	CYLINDER ASSEMBLY WITH BACKPACK, 9C- 4220-00-058-1609	U.S. DIVERS	SCUBA BACKPACK AND CYLINDERS, PART NUMBER 0765-80 (BLACK) TWIN 80'S	
CAT I 1.3.6	CYLINDER ASSEMBLY WITH BACKPACK, 9E-4220- 01-130-1488	U.S. DIVERS	SCUBA BACKPACK AND CYLINDERS, PART NUMBER 0757-80 (GRAY)	
CAT III 1.3.7	CYLINDER BANDS HARNES/BACKPACK, COMMERCIAL	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE SCUBA CYLINDER BACKPACKS, CYLINDER BANDS AND HARNES. THEY SHALL BE MAINTAINED IAW CURRENT PMS, AND MANUFACTURERS SPECIFICATIONS.
CAT III 1.3.8	COMMERCIAL 9C-4220-01-227-7829	U.S. DIVERS	DIVER'S TANK BOOT (0700-00)	
CAT III 1.3.9	9C-4220-01-227-7506	MAR-VEL	SINGLE CYLINDER BACKPACK PART # BP-800	
CAT III 1.3.10	9C-4220-01-274-3690	U.S. DIVERS	TWIN BACKPACK, MARINER (0834-00)	
CAT III 1.3.11	9C-4220-01-327-1993	U.S. DIVERS	BACKPACK 0827-00 TWIN TANK HARNES 7.25" ASSEMBLY	
CAT I 1.3.12	MANIFOLD, CYLINDER COMMERCIAL	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE SCUBA CYLINDER MANIFOLDS AND VALVES. MANIFOLDS, VALVES, AND RELIEF VALVE MECHANISMS SHALL BE PROPERLY MATCHED TO CYLINDERS WORKING PRESSURE TO ENSURE THE RELIEF VALVE (BLOW OUT PLUG) IS THE WEAKEST POINT IN THE SYSTEM.
CAT I 1.3.13	VALVE/MANIFOLD, 9C- 4220-00-744-1248 APL: 990010105	U.S. DIVERS	SINGLE J-VALVE PN 0545-00	
CAT I 1.3.14	VALVE/MANIFOLD, 9C- 4220-00-104-8732 APL: 990010106	U.S. DIVERS	TWIN MANIFOLD J- VALVE (2800-00)	
CAT I 1.3.15	9C-4220-01-039-1873	U.S. DIVERS	K-VALVE 0542-00	SCUBA REGULATORS SHALL BE EQUIPPED WITH SUBMERSIBLE DEPTH GAGE TO USE K-VALUE.
CAT I 1.3.16	VALVE/MANIFOLD, COMMERCIAL	SHERWOOD	DOUBLE VALVE MANIFOLD - PN SUB6306D,4000 KDE	MAY BE USED TO CREATE REDUNDANT SCUBA SYSTEM FOR ICE/COLD WATER DIVING OPERATIONS.
CAT I 1.3.17	VALVE/MANIFOLD, COMMERCIAL	SHERWOOD	SINGLE J VALVE, PN 4000J, SUB 40005, SUB 4000 JD	
CAT I 1.3.18	COMMERCIAL	LUXFER	SCUBA CYLINDER S-19 (19 CUFT) S-30 (30 CUFT)	THESE FLASKS MAY BE USED WITH MK 20 OR MK 21 TO 60 FEET OF SEA WATER IN SITUATIONS WHERE NO EGS IS REQUIRED BY THE USN DIVING MANUAL. THE EXPECTED DURATIONS OF THE CYLINDERS AT 60 FSW IS FIVE MINUTES FOR THE 19 CUBIC FOOT (S-19), AND SEVEN MINUTES FOR THE 30 CUBIC FOOT (S-30).

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1.3 Cylinders, Manifolds and Backpacks, SCUBA (Continued)

CAT I 1.3.19	COMMERCIAL	SHERWOOD	SCUBA CYLINDER AL0030 (30 CUFT)	THIS FLASK MAY BE USED WITH MK 20 OR MK 21 TO 60 FEET OF SEA WATER IN SITUATIONS WHERE NO EGS IS REQUIRED BY THE USN DIVING MANUAL. THE EXPECTED DURATION OF THE CYLINDERS AT 60 FSW IS SEVEN MINUTES FOR THE 30 CUBIC FOOT (AL0030).
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1.4 Regulators, Cold Water Service

CAT I 1.4.1	REGULATOR, COLD WATER COMMERCIAL 9C-4220-00-623-7280	POSEIDON	ODIN PART # 3960-80 or old number 2960-80	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER. SHALL BE FITTED WITH AN ODIN OCTOPUS 2ND STAGE REGULATOR (PN 29700000) AND 1ST STAGE ANTI-FREEZE CAP PART NUMBER 1286. NEWER VERSION ODIN IS CALLED JETSTREAM.
CAT I 1.4.2	REGULATOR, COLD WATER COMMERCIAL 9C-4220-00-367-7062	POSEIDON	CYKLON 5000 PART # 3950-80 or old number 2950-80	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER. SHALL BE FITTED WITH A CYKLON OCTOPUS 2ND STAGE REGULATOR (PN 29810000) AND 1ST STAGE ANTI-FREEZE CAP PART NUMBER 1286.
CAT I 1.4.3	REGULATOR, COLD WATER COMMERCIAL	POSEIDON	THOR PART # 2940-80	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER. SHALL BE FITTED WITH A ODIN OCTOPUS 2ND STAGE AND 1ST STAGE ANTI-FREEZE CAP PART NUMBER 1286. NO LONGER MANUFACTURED BUT REMAINS AUTHORIZED FOR USE.
CAT I 1.4.4	REGULATOR, COLD WATER COMMERCIAL	POSEIDON	CYKLON 300 PART # 2980-80	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER. SHALL BE FITTED WITH A CYKLON OCTOPUS 2ND STAGE REGULATOR AND 1ST STAGE ANTI-FREEZE CAP PART NUMBER 1286. NO LONGER MANUFACTURED, BUT REMAINS AUTHORIZED FOR USE.
CAT I 1.4.5	REGULATOR, 2ND STAGE OCTOPUS COLD WATER COMMERCIAL	POSEIDON	ODIN OCTOPUS PART # 29700000	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER, WHEN FITTED TO ODIN 1ST STAGE REGULATOR.
CAT I 1.4.6	REGULATOR, 2ND STAGE OCTOPUS COLD WATER COMMERCIAL	POSEIDON	CYKLON OCTOPUS PART # 2981000	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER, WHEN FITTED TO A CYKLON 5000 OR CYKLON 300 1ST STAGE REGULATOR.
CAT I 1.4.7	REGULATOR, 2ND STAGE & FULL FACE MASK (FFM), COLD WATER COMMERCIAL OR 9C-4220-01-330-6137 APL: 99010097	AGA	AGA MK-II /DIVATOR FFM PN 336-190-350 OR AGA 2ND STAGE MOUTH PIECE PN 336-190-354	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER, WHEN MATED WITH THE 1ST STAGE OF POSEIDON ODIN WITH COLD WATER KIT. A COLD WATER APPROVED OCTOPUS 2ND STAGE REGULATOR SHALL ALSO BE FITTED TO THE 1ST STAGE OF ALL AGA/COLD WATER REGULATOR SYSTEMS. MAY ALSO BE MATED TO THE 1ST STAGE OF US DIVERS PRO DIVER WITH COLD WATER KIT INSTALLED, US DIVERS PRO DIVER IS NO LONGER MANUFACTURED BUT CONTINUES TO BE AUTHORIZED FOR THIS SERVICE.

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1.4 Regulators, Cold Water Service (Continued)

CAT I 1.4.8	REGULATOR, 2ND STAGE & FULL FACE MASK GENERAL COMMERCIAL	AGA	MK-IIG AGA	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER, WHEN MATED WITH THE 1ST STAGE OF COLD WATER APPROVED POSEIDON ODIN. A COLD WATER APPROVED OCTOPUS 2ND STAGE REGULATOR SHALL ALSO BE FITTED TO THE 1ST STAGE OF ALL AGA/COLD WATER REGULATOR SYSTEMS. MAY ALSO BE MATED TO THE 1ST STAGE OF US DIVERS PRO DIVER WITH COLD WATER KIT INSTALLED, US DIVERS PRO DIVER IS NO LONGER MANUFACTURED BUT CONTINUES TO BE AUTHORIZED FOR THIS SERVICE. <b>THE MK IIG IS AUTHORIZED FOR USE WITH THE MK 20 DIVING SYSTEM, BUT THE POSITIVE PRESSURE CONFIGURATION SHOULD BE USED IN CONTAMINATED WATER OR POTENTIALLY CONTAMINATED ATMOSPHERES SUCH AS ENCLOSED SPACE DIVING.</b>
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1.5 Regulators, General Service

CAT I 1.5.1	REGULATOR, 2ND STAGE & FULL FACE MASK GENERAL COMMERCIAL OR 9C-4220-01-330-6137	AGA	AGA SPM-1AGA	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER, WHEN MATED WITH THE 1ST STAGE OF A GENERAL SERVICE SCUBA REGULATOR LISTED HEREIN.
CAT I 1.5.2	REGULATOR, GENERAL COMMERCIAL	BEAUCHAT	VTR-8/VX-10	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER.
CAT I 1.5.3	REGULATOR, GENERAL COMMERCIAL 9C-4220-01-041-2635	MARES	MR-12 VOLTREX	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER.
CAT I 1.5.4	REGULATOR, GENERAL COMMERCIAL	SCUBA PRO	MK10/G-250	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER.
CAT I 1.5.5	REGULATOR, GENERAL COMMERCIAL	U.S. DIVERS	MICRA P/N 1001.00	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER.
CAT I 1.5.6	REGULATOR, GENERAL COMMERCIAL	U.S. DIVERS	PRO DIVER P/N 1021-95	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. NO LONGER MANUFACTURED, BUT CONTINUED AUTHORIZED FOR USE.
CAT I 1.5.7	REGULATOR, GENERAL COMMERCIAL 9C-4220-00-141-1902	U.S. DIVERS	SE-2 PART # 1074-00	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. RECOMMENDED USE OF LOW TEMPERATURE CONVERSION KIT (PN 1076-95) FOR DIVING IN WATER BETWEEN 38-48 DEGREES.
CAT I 1.5.8	REGULATOR, GENERAL 9C-4220-01-294-4106	U.S. DIVERS	SE-2 SUPREME PART # 1076-90	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. RECOMMENDED USE OF LOW TEMPERATURE CONVERSION KIT (PN 1076-95) FOR DIVING IN WATER BETWEEN 38-48 DEGREES.
CAT I 1.5.9	REGULATOR, GENERAL 1H-1940-01-105-3069 APL:990010053	U.S. DIVERS	CONSHLF XIV PART # 1081-00	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. BOX BOTTOM PART NUMBERS 1085-50 OR 1049-22 AUTHORIZED.
CAT I 1.5.10	REGULATOR, GENERAL APL: 990010019 1H-4220-01-388-1030	U.S. DIVERS	CONSHLF XIV SUPREME PART # 1088-00	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER.
CAT I 1.5.12	REGULATOR, GENERAL COMMERCIAL	U.S. DIVERS	SEA-2	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER.

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1.6 Regulators, Special Service  
Full Face Mask

CAT I 1.6.1	COMMERCIAL NATO STOCK NUMBER 4220-99-533-3686	BRITISH SCUBA	BRITISH SCUBA FULL FACE MASK, "WIDE VISION FULL FACE MASK"	AUTHORIZED TO THE SAME DEPTH AS THE OPEN CIRCUIT SCUBA REGULATOR THAT IS FITTED TO THE MASK.
CAT I 1.6.2	COMMERCIAL	CRESSI-SUB S.P.A., GENOA, ITALY	CRESSI-SUB FULL FACE MASK, PN HA750089	AUTHORIZED FOR USE WITH THE MK-16, MOUTH PIECE MATED TO THE MASK. AUTHORIZED FOR THE SAME DEPTH AS THE OPEN CIRCUIT SCUBA REGULATOR THAT IS FITTED TO THE MASK.

1.7 Special Accessory Items

CAT II 1.7.1	KNIFE, NON-MAG, 1H-1385- 00-892-6082	STOCK ITEM	NON-MAGNETIC, EOD 700-1765159	FOR NON-MAGNETIC AND NON-SPARKING APPLICATIONS.
CAT II 1.7.2	MASK, 9C-4220-01-358- 4250	U.S. DIVERS	MASK, NON- MAGNETIC DIVER (5029-50)	EOD NON-MAGNETIC SCUBA FACE MASK, AUTHORIZED FOR EOD AND SPECWAR DIVING REQUIRING NON-MAG SCUBA ACCESSORIES.
CAT II 1.7.3	NAVSEA PEO MIW/PMS- EOD CONTROLLED ITEM	EOD COORDINATED	MK 1 EOD DRY SUIT WEIGHT VEST	EOD CONTROLLED ITEM.
CAT I 1.7.4	GAUGE, TIMER/DEPTH	BEUCHAT	DIGITAL MCD-1	NO LONGER MANUFACTURED, BUT AUTHORIZED FOR CONTINUED USE. FOR USE WITH THE MK 16 UBA.

1.8 UBA Set, Closed & Semi-  
Closed Circuit

CAT I 1.8.1	NAVSEA PEO MIW/PMS- EOD CONTROLLED ITEM	MILITARY SPECIFICATION	MK 16, MOD 0 UNDERWATER BREATHING APPARATUS (UBA)	CLASS CERTIFIED ITEM, OPERATIONAL DEPTH/DURATION CAPABILITY PER MK 16 O&M MANUAL, NAVSEA SS600-AH-MMA-010. THIS SYSTEM IS UNDER THE COGNIZANCE OF PEO-MIW CODE PMS-EOD, (301) 743-6837. MK 24 FFM IS AUTHORIZED FOR USE WITH THE MK 16.
CAT I 1.8.2	NAVSEA PMS340 CONTROLLED ITEM	U.S. DRAEGER, INC.	MK-25, MOD 0 (LAR 5) UNDERWATER BREATHING APPARATUS	CLASS CERTIFIED ITEM, MAGNETIC VERSION, OPERATIONAL DEPTH/DURATION PER MK-25 MOD 0 O&M MANUAL, NAVSEA SS600-AJ-MMA-010. THIS SYSTEM IS UNDER THE COGNIZANCE OF NAVSEA CODE PMS 340Z1, (703) 602-9032, DSN 332- 9032.
CAT I 1.8.3	NAVSEA PMS340 CONTROLLED ITEM	U.S. DRAEGER, INC.	MK-25, MOD 1 (LAR 5) UNDERWATER BREATHING APPARATUS	CLASS CERTIFIED ITEM, NON-MAGNETIC VERSION, OPERATIONAL DEPTH/DURATION PER MK-25 MOD 0 O&M MANUAL, NAVSEA SS600-A2-MMA-010. THIS SYSTEM IS UNDER THE COGNIZANCE OF NAVSEA CODE PMS 340Z1, (703) 602-9032, DSN 332-9032.
CAT I 1.8.4	USMC CONTROLLED ITEM	U.S. DRAEGER, INC.	MK-25, MOD 2 (ENHANCED LAR 5) UNDERWATER BREATHING APPARATUS	CLASS CERTIFIED ITEM, MAGNETIC VERSION, OPERATIONAL DEPTH/DURATION PER MK-25 MOD 0 O&M MANUAL, NAVSEA SS600-AJ-MMA-010. THIS SYSTEM IS UNDER THE COGNIZANCE OF USMC SYSCOM CODE CBGR, (703) 784-3472, DSN 278-3474. NAVY COG IS PMS 325 (703) 602-9032.

NOTE: ALL CAT III ARE DIVER PREFERENCE

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 001  
SCUBA EQUIPMENT

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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1.9 Scuba Accessories, General

CAT III 1.9.1	WEIGHT BELTS, COMMERCIAL AND NSN STOCK ITEMS	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE WEIGHTS AND BELTS OR NSN STOCK ITEMS AS IS MOST COST EFFECTIVE.
CAT III 1.9.2	COMPASS, UNDERWATER, COMMERCIAL OR STOCK	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE OR STANDARD STOCK COMPASSES FOR USE IN DIVING APPLICATIONS
CAT III 1.9.3	FINS, SWIM, COMMERCIAL OR STOCK	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE OR STANDARD STOCK SWIM FINS FOR USE IN DIVING OPERATIONS.
CAT III 1.9.4	KNIFE, DIVER'S COMMERCIAL OR STOCK	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE OR STANDARD STOCK KNIVES FOR USE IN DIVING APPLICATIONS.
CAT III 1.9.5	FACE MASK SCUBA, COMMERCIAL OR STOCK ITEM	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE OR STANDARD STOCK SCUBA FACE MASKS.
CAT III 1.9.6	SNORKEL, SCUBA, COMMERCIAL OR STOCK ITEM	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE OR STANDARD STOCK SNORKELS FOR DIVING OPERATIONS.
CAT III 1.9.7	WATCHES, UNDERWATER AND TOPSIDE USE, COMMERCIAL OR STOCK ITEM	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE OR STANDARD STOCK WATCHES FOR UNDERWATER AND TOPSIDE USE. CONVENTIONAL AND DIGITAL UNDERWATER AND STOP TYPE WATCHES SHALL HAVE ELAPSED TIME FEATURE. INDIVIDUAL UNIT COST SHALL NOT EXCEED \$300.
CAT III 1.9.8	DEPTH, GAUGE, COMMERCIAL OR STOCK ITEM	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE OR STANDARD STOCK DEPTH GAUGES. ALL DEPTH GAUGES <u>SHALL BE MAINTAINED</u> IAW CURRENT PMS.
CAT III 1.9.9	GAUGE, SUBMERSIBLE SCUBA TANK	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE OR STANDARD STOCK SUBMERSIBLE SCUBA TANK GAUGES. SCUBA TANK GAUGES <u>SHALL BE MAINTAINED</u> IAW CURRENT PMS.
CAT III 1.9.10	GAUGE, TOPSIDE SCUBA TANK	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE OR STANDARD STOCK TOPSIDE SCUBA TANK GAUGE ASSEMBLIES. GAUGES AND MANIFOLD ASSEMBLY SHALL MEET OR EXCEED WORKING PRESSURE OF THE TANKS TO BE MEASURED. GAUGES <u>SHALL BE MAINTAINED</u> IAW CURRENT PMS.
CAT III 1.9.11	GAUGE, TOPSIDE FILLER AND GAUGE	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE OR STANDARD STOCK TOPSIDE SCUBA TANK FILL/GAUGE ASSEMBLIES. GAUGES AND MANIFOLD ASSEMBLY SHALL MEET OR EXCEED WORKING PRESSURE OF CHARGING SYSTEM ATTACHED TO. GAUGES FOR SCUBA TANK CHARGING <u>SHALL BE MAINTAINED</u> IAW CURRENT PMS.

## DIVING EQUIPMENT AUTHORIZED FOR NAVY USE

## SECTION 001

## SCUBA EQUIPMENT

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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## 1.10 Vehicle, Diver Propulsion

CAT II 1.10.2	COMMERCIALY AVAILABLE	FARALLON USA, INC.	MK V, MK VI	NOW BEING SUPPORTED BY FARALLON USA INC; DIVER PROPULSION VEHICLES. PO BOX 450505, ATLANTA, GA 31145 PHONE (770) 414-0550.
CAT II 1.10.3	COMMERCIALY AVAILABLE	FARALLON USA, INC.	MK VIII	FOLLOW ON REPLACEMENT MODEL TO OLDER FARALLON MODELS MK V AND MK VI.
CAT II 1.10.4	COMMERCIALY AVAILABLE	TECKNA	DV-3X	NO LONGER MANUFACTURED, BUT AUTHORIZED FOR CONTINUED USE.
CAT II 1.10.5	COMMERCIALY AVAILABLE	TECKNA	MIL UNIT MOD S- 5100	NO LONGER MANUFACTURED, BUT AUTHORIZED FOR CONTINUED USE.
CAT II 1.10.6	MARCORSYSCOM CONTROLLED ITEM	N/A	DIVER PROPULSION DEVICE (DPD) MOD 0 (SHARC)	MARINE CORPS SYSTEMS COMMAND (CBG) CONTROLLED ITEM UNDER THE COGNIZANCE OF USMC SYSCOM CODE CBGR, (703) 784-3472, DSN 278-3474.
CAT I 1.10.7	NAVSEA CONTROLLED ITEM	N/A	MK VIII MOD 0/1 SWIMMER DELIVERY VEHICLE (SDV)	NAVAL SEA SYSTEMS COMMAND CONTROLLED ITEM UNDER COMNAVSEASYSYSCOM PMS 340Z1 COGNIZANCE, (703) 602-9032, DSN 332-9032.

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 002  
THERMAL PROTECTION EQUIPMENT

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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2.1 Wet suits

CAT III 2.1.1	WET SUITS COMMERCIAL OR STOCK ITEMS	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE OR STANDARD STOCK, STANDARD SIZED OR CUSTOM FITTED WET SUITS. STRONG CONSIDERATION SHALL BE GIVEN TO OUTFITTING DIVERS THAT MUST OPERATE IN COLD WATER WITH CUSTOM FITTED WET SUITS AND ACCESSORIES. ADEQUATE THERMAL PROTECTION IS A DIVER SAFETY ISSUE IN COLD WATER.
CAT III 2.1.2	WET SUIT, ACCESSORIES COMMERCIAL OR STOCK ITEMS	VARIOUS	GLOVES, VESTS, BOOTIES, HOODS, LINERS, POCKETS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE OR STANDARD STOCK WET SUIT ACCESSORIES. STRONG CONSIDERATION SHALL BE GIVEN TO OUTFITTING DIVERS THAT MUST OPERATE IN COLD WATER WITH CUSTOM FITTED WET SUIT ACCESSORIES. ADEQUATE THERMAL PROTECTION IS A DIVER SAFETY ISSUE IN COLD WATER.

GENERAL NOTE (1): LOCAL COMMAND LEVEL DRY SUIT INDOCTRINATION TRAINING AND FAMILIARIZATION DIVE REQUIRED PRIOR TO USE. INFLATION OF VVDS WHEN USED WITH MK 21 MOD 1 LIGHTWEIGHT DIVING OUTFIT SHALL BE ACCOMPLISHED BY CONNECTING TO LP PORT ON THE SIDE BLOCK. WHEN DIVING SCUBA, CONVENTIONAL LIFE PRESERVER OR BUOYANCY COMPENSATOR SHALL BE USED WITH THE VVDS.

GENERAL NOTE (2): DRY SUITS LISTED ARE AUTHORIZED FOR USE WITH THE MK-21, WITH INHERENT NECK DAM TO SUPPORT CONTAMINATED/COLD WATER DIVING. INFLATION OF VVDS WHEN USED WITH MK 21 MOD 1 LIGHTWEIGHT DIVING OUTFIT SHALL BE ACCOMPLISHED BY CONNECTING TO LP PORT ON THE SIDE BLOCK. DRY SUITS ARE CAT-III WHEN USED IN NON-CONTAMINATED WATER APPLICATIONS OR WHEN NOT EQUIPPED WITH NECK DAM.

2.2 Dry Suits

CAT III 2.2.1	DRY SUITS, COMMERCIAL OR STOCK ITEM	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE OR STANDARD STOCK DRY SUITS AND ACCESSORIES. THE SUITS LISTED HERE DO NOT REPRESENT A COMPLETE LIST OF ALL ON THE COMMERCIAL MARKET. COMMANDS MAY SELECT FROM WHAT'S AVAILABLE ON THE COMMERCIAL MARKET AS BEST MEETS THEIR OPERATIONAL NEEDS.
CAT III 2.2.2	3HD-4220-01-349-2411 (SMALL) / 2412 (MEDIUM) / 2413 (LARGE)	TYPHOON WATERWEARS LTD	DRY SUIT, FRONT ENTRY, 111700.1/2/3	GENERAL NOTE (1) APPLIES.
CAT III 2.2.3	9C-4220-00-516- 3385 - XLARGE 3386 - LARGE 3388 - MED	POSEIDON INDUSTRY AB	UNISUIT MODELS 2209	GENERAL NOTE (1) APPLIES.
CAT III 2.2.4	1HS0000-LL-CJA-5742	STOCK ITEM	SUIT, DRY, VARIABLE	GENERAL NOTE (1) APPLIES.
CAT III 2.2.5	COMMERCIAL	DIVING UNLIMITED INTERNATIONAL	CF200X	GENERAL NOTE (1) APPLIES.
CAT II 2.2.6	EOD CONTROLLED ITEM	EOD	MK 1 MOD 1 EOD DRY SUIT	LOW-MAGNETIC SIGNATURE, MEETS MIL-M-19595. EOD CONTROLLED ITEM.
CAT II 2.2.7	COMMERCIAL	AVON	1800 STANDARD HEAVY DUTY	GENERAL NOTES (1) AND (2) APPLY
CAT II 2.2.8	COMMERCIAL	NOKIA	THE BOSS	GENERAL NOTES (1) AND (2) APPLY
CAT II 2.2.9	COMMERCIAL	TYPHOON	PROSUIT PRO FRONT ENTRY	GENERAL NOTES (1) AND (2) APPLY



DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 002  
THERMAL PROTECTION EQUIPMENT

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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2.2 Dry Suits (continued)

CAT II 2.2.10	COMMERCIAL	U.S.I.A. UNDERWATER EQUIPMENT SALES	MODEL 3651 COMBAT SWIMMERS SUIT	GENERAL NOTES (1) AND (2) APPLY
CAT II 2.2.11	COMMERCIAL	TRELLEBORG VIKING, INC.	HEAVY DUTY WITH SL17 YOKE	GENERAL NOTES (1) AND (2) APPLY
CAT III 2.2.12	COMMERCIAL	POSEIDON	POSEIDON EXCLUSIVE DRY SUIT, UNISUIT EXCLUSIVE	GENERAL NOTE (1) TESTED AND RECOMMENDED BY NEDU.
CAT III 2.2.13	COMMERCIAL	GATES RUBBER COMPANY LIMITED	PRO-AM 1050 PRO-AM 1500	GENERAL NOTE (1) BOTH OF THESE SUITS HAVE BEEN TESTED AND RECOMMENDED BY NEDU. THE GATES RUBBER COMPANY LIMITED, EDINBURGH ROAD, DUMFRIES, SCOTLAND. DG1 1QA

2.3 Hot Water Diving Equipment

CAT II 2.3.1	COMMERCIAL HOT WATER HEATER APL: 023150003	DIVING UNLIMITED INTERNATIONAL (DUI)	ECONO: 31020-01	
CAT II 2.3.2	HOT WATER HEATER APL: 023150002	DIVING UNLIMITED INTERNATIONAL (DUI)	GULF: 31007-00	
CAT II 2.3.3	COMMERCIAL HOT WATER HEATER	MARVEL	MONKEY HEATER	NOT AUTHORIZED FOR OPERATIONS DEEPER THAN 100 FSW.
CAT II 2.3.3.1	COMMERCIAL HOT WATER HEATER	D.H.B PRODUCT DEVELOPMENT CO., INC	D.H.B. 690-R FUEL FIRED DIVERS HOT WATER HEATER	DHB 690-R IS SUPPLIED WITH A GFI SUITABLE FOR USE ON COMMERCIAL UTILITY POWER ONLY. THE INSTALLED GFI MUST BE REPLACED WITH AN APPROVED 15 AMP GFI PRIOR TO USE. DO NOT PLACE GFI'S IN PARALLEL.
CAT II 2.3.3.2	COMMERCIAL HOT WATER HEATER, ELECTRIC	DIVING UNLIMITED INTERNATIONAL LTD	DIVER HEATER MODEL K15B-P, ELECTRIC HOT WATER HEATER	MUST BE USED WITH AN APPROVED GFI. APPROVED FOR SATURATION DIVING.
CAT I 2.3.4	COMMERCIAL INSPIRED GAS HEATER SPLITTER BLOCK	VARIOUS	NEDU DWG NO. 88-46)	USED TO SPLIT HOT BETWEEN WATER SUIT AND DSI HOT WATER SHROUD.
CAT II 2.3.4.1	COMMERCIAL SCALD SAFE VALVE	MARVEL	MARVEL SCALD SAFE VALVE	THE SCALD SAFE VALVE IS INSTALLED ON THE DIVER'S END OF THE UMBILICAL. THE VALVE STOPS THE FLOW OF WATER IF IT REACHES 110 DEGREES AND RESTARTS THE FLOW AT 95 DEGREES.
CAT I 2.3.5	COMMERCIAL INSPIRED GAS HEATER	KINERGETICS	3375-3	NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE. NOT FOR USE WITH THE MK-21.
CAT III 2.3.6	HOT WATER GLOVES COMMERCIAL 4220-01-174-7875 DUI PN 35008-01 -LARGE 4220-01-174-7876 DUI PN 35008-01 - MEDIUM	DIVING UNLIMITED INTERNATIONAL (DUI)	35008-01L	THE TWO NSN'S CORRESPOND TO DIFFERENT SIZES. COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE AND STOCK HOT WATER GLOVES FOR USE IN DIVING APPLICATIONS.
CAT III 2.3.7	HOT WATER HOOD COMMERCIAL	DIVING UNLIMITED INTERNATIONAL (DUI)	35000-11	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE HOT WATER HOODS FOR USE IN DIVING APPLICATIONS.

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 002  
THERMAL PROTECTION EQUIPMENT

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
2.3 Hot Water Diving Equipment (Continued)				
CAT II 2.3.8	HOT WATER HOSE FITTINGS COMMERCIAL	DIVING UNLIMITED INTERNATIONAL (DUI)	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE HOT WATER HOSE FITTINGS, THEY MUST BE MANUFACTURED SPECIFICALLY FOR THAT APPLICATION.
CAT II 2.3.9	HOT WATER HOSE COMMERCIAL	DIVING UNLIMITED INTERNATIONAL (DUI)	31027-000	
CAT II 2.3.10	HOT WATER HOSE COMMERCIAL	GATES	ECONOFLEX	
CAT III 2.3.11	HOT WATER BOOTIES/BOOTS COMMERCIAL	DIVING UNLIMITED INTERNATIONAL (DUI)	SOFT SOLE:35009-01 HARD SOLE:35009-02	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE HOT WATER BOOTIES/BOOTS FOR USE IN DIVING APPLICATIONS.
CAT III 2.3.12	HOT WATER SUIT LINER COMMERCIAL	DIVING UNLIMITED INTERNATIONAL (DUI)	35006-000	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE OR STOCK HOT WATER SUIT LINERS FOR USE IN DIVING APPLICATIONS.
CAT III 2.3.13	HOT WATER SUIT COMMERCIAL OR STOCK ITEM 1HS0000-LL-CJ7-1074-- REG 1HS0000-LL-CJ7-1075-- LARGE 1HS0000-LL-CJ7-1073-- MED 1HS0000-LL-CJ7-1072-- SMALL	DIVING UNLIMITED INTERNATIONAL (DUI)	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE OR STOCK HOT WATER SUITS FOR USE TO SUIT COMMAND DIVING APPLICATIONS.

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 003  
SURFACE SUPPLIED DIVING EQUIPMENT

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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3.1 Diving Harness / Boots

CAT II 3.1.1	COMMERCIAL OR 9C-4220-01-392-0301	MAR-VEL	DIVER'S SAFETY HARNESS DWG #: 592- 6318020 OR MARVEL PART #: BH200 B/NS	
CAT II 3.1.2	9C-4220-01-045-2194 (CANCELED)	MORRIS DIVING EQUIPMENT	INTEGRATED DIVERS VEST (IDV) MIL-V- 24690(SH) OR 4666989	NSN CANCELED WITHOUT REPLACEMENT. NO LONGER AUTHORIZED FOR PURCHASE, BUT AUTHORIZED FOR CONTINUED USE.
CAT II 3.1.3	COMMERCIAL	ZEAGLE	MILITARY VEST PN 7050-AM	FOR SURFACE SUPPLY DIVING ONLY. REQUIRES JOCKING STRAP AND "D" RINGS ON BOTH SIDES AND WAIST.
CAT II 3.1.5	COMMERCIAL	ATLANTIC DIVING EQ (ADE)	DIVE HARNESS PN# 16509	
CAT II 3.1.6	COMMERCIAL	DIVEX	DIVE HARNESS PN# DE394K OR DE400	DE394K HOLDS UP TO 61 LBS. NON-DITCHABLE WEIGHT. DE400 HOLDS UP TO 81 LBS. OF DITCHABLE WEIGHT.
CAT III 3.1.7	COMMERCIAL	MARVEL	SERVUS BOOT PART NUMBER 21622	FULL SIZES 6 - 13 MARVEL (609) 962-8719

3.2 Umbilical Hose

CAT I 3.2.1	COMMERCIAL	FURON, SYNIFLEX DIVISION	34BA BREATHING AIR HOSE	PRODUCT ID: SYNIFLEX 34BA-06 3/8 INCH ID, WORKING PRESSURE 250 PSI.
CAT I 3.2.2	COMMERCIAL SF9-4730-01-27-2249	GATES	33HB	PRODUCT ID: 33HB - 3/8 INCH ID, WORKING PRESSURE 1,125 PSI.
CAT I 3.2.3	COMMERCIAL	AQUALITE	HAL 0106	PRODUCT ID: HAL 0106 - 3/8 INCH ID, WORKING PRESSURE 500 PSI.

3.3 Umbilical Powered Underwater Lights

CAT III 3.3.1	COMMERCIAL	AQUA AIR INDUSTRIES INC.	AA1-MINI, UMBILICAL POWERED UW LIGHT	NO MODIFICATIONS TO FFM UBA/HELMET ARE AUTHORIZED. SUPPLIED BY 12 VDC POWER SUPPLY, NO GFI REQUIRED. 1925 INDUSTRIAL BLVD., HARVEY, LA 70058 (504) 348-8088
CAT II 3.3.2	COMMERCIAL	SIMRAD - OLD NAME: HYDRO PRODUCTS (LATER HYDROVISION)	HQ-250/800647-01 250 WATTS/120 VOLTS AC	(1) AC POWERED UNDERWATER LIGHTS SHALL BE PROTECTED BY A GROUND FAULT INTERRUPTER INSTALLED BETWEEN THE POWER SUPPLY AND THE UNDERWATER LIGHT. IT IS IMPORTANT TO NOTE THAT USE OF AN EXTERNAL GFI IN A SYSTEM WITH AN INTERNAL GFI OR POWER SUPPLY WHICH IS CONNECTED TO A GFI CAN RESULT IN NULLIFYING THE ABILITY OF THE GFI TO OPERATE. COMPLY WITH THE ELECTRICAL SAFETY SECTION OF THE USN DIVING MANUAL.
CAT II 3.3.3	COMMERCIAL	SIMRAD - OLD NAME: HYDRO PRODUCTS (LATER HYDROVISION)	HQ-500/800647-02 500 WATTS/120 VOLTS AC	(1) AC POWERED UNDERWATER LIGHTS SHALL BE PROTECTED BY A GROUND FAULT INTERRUPTER INSTALLED BETWEEN THE POWER SUPPLY AND THE UNDERWATER LIGHT. IT IS IMPORTANT TO NOTE THAT USE OF AN EXTERNAL GFI IN A SYSTEM WITH AN INTERNAL GFI OR POWER SUPPLY WHICH IS CONNECTED TO A GFI CAN RESULT IN NULLIFYING THE ABILITY OF THE GFI TO OPERATE. COMPLY WITH THE ELECTRICAL SAFETY SECTION OF THE USN DIVING MANUAL.

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SURFACE SUPPLIED DIVING EQUIPMENT

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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3.3 Umbilical Powered Underwater Lights (Continued)

CAT II 3.3.4	COMMERCIAL	SIMRAD - OLD NAME: HYDROVISION	DIVER HELMET MOUNTED LIGHT SYSTEM (DHMLS) DWG # 998-2005 REV A	(1) AC POWERED UNDERWATER LIGHTS SHALL BE PROTECTED BY A GROUND FAULT INTERRUPTER INSTALLED BETWEEN THE POWER SUPPLY AND THE UNDERWATER LIGHT. IT IS IMPORTANT TO NOTE THAT USE OF AN EXTERNAL GFI IN A SYSTEM WITH AN INTERNAL GFI OR POWER SUPPLY WHICH IS CONNECTED TO A GFI CAN RESULT IN NULLIFYING THE ABILITY OF THE GFI TO OPERATE. COMPLY WITH THE ELECTRICAL SAFETY SECTION OF THE USN DIVING MANUAL. (2) PRODUCT ID & DEPOT LEVEL REPAIRS: DHMLS O & M MANUAL PUB # 998-20005. SIMRAD, 1225 STONE DRIVE, SAN MARCOS, CA 92069, PH (619) 471-2223
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3.4 Diving Helmets and Other Authorized for Use and Class Certified Systems

CAT I 3.4.1	NAVSEA CONTROLLED	INTERSPIRO	MK 20 SURFACE SUPPLIED DIVING MASK	CLASS CERTIFIED, OPERATIONAL DEPTH/DURATION CAPABILITY PER MK 20 O&M MANUAL S600-AK-MMO-010 (REV 1). PROGRAM MANAGER IS NAVSEA CODE 00C33, (703) 607-2767, DSN 327-2767. <b>ITEM 1.4.8, MK IIG AGA, IS AN AUTHORIZED MASK WITH THIS CONFIGURATION, BUT THE POSITIVE PRESSURE CONFIGURATION SHOULD BE USED IN CONTAMINATED WATER OR POTENTIALLY CONTAMINATED ATMOSPHERES SUCH AS ENCLOSED SPACE DIVING.</b>
CAT I 3.4.2	NAVSEA CONTROLLED APL: 990010096	DIVING SYSTEMS INTERNATIONAL (DSI)	MK 21 SURFACE SUPPLIED DIVING HELMET	CLASS CERTIFIED, OPERATIONAL DEPTH/DURATION CAPABILITY PER MK 21 O&M MANUAL S6560-AG-OMP-010 (REV 1). PROGRAM MANAGER IS NAVSEA CODE 00C33, (703) 607-2767, DSN 327-2767.
CAT I 3.4.3	COMMERCIAL	DIVING SYSTEMS INTERNATIONAL (DSI)	MANIFOLD BLOCK ASSEMBLY	APPROVED FOR USE WITH UBA MK 20 FOR PROVIDING EGS CAPABILITY WITHIN MK 20 OPERATING LIMITS.
3.4.4	COMMERCIAL	DIVING EQUIPMENT COMPANY OF AMERICA (DECA)	HOSE, QUICK DISCONNECT, STAINLESS STEEL DE 255-025 NS	APPROVED FOR USE WITH UBA MK 21 MOD 1 FOR EGS WHIP. APPROVED FOR USE WITH UBA MK 20 MOD 0 FOR EGS WHIP WHEN USED WITH DSI MANIFOLD BLOCK ASSEMBLY.
CAT I 3.4.5	COMMERCIAL	DIVING EQUIPMENT COMPANY OF AMERICA (DECA)	HOSE, QUICK DISCONNECT, BRASS DE 255-020 NS	APPROVED FOR USE WITH UBA MK 21 MOD 1 FOR EGS WHIP. APPROVED FOR USE WITH UBA MK 20 MOD 0 FOR EGS WHIP WHEN USED WITH DSI MANIFOLD BLOCK ASSEMBLY.

3.5 Diver Battery Powered Lights, Helmet and Hand Held

CAT III 3.5.1	BATTERY POWERED LIGHTS COMMERCIAL OR STOCK ITEM	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE OR STOCK BATTERY POWERED UNDERWATER LIGHTS. POWER SUPPLY/BATTERIES NOT TO EXCEED 30 VDC.
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3.6 Communications Systems and Accessories

CAT II 3.6.1	7H-4220-01-223-0051 APL:990010071	ALLIANT TECH SYSTEMS INC.	HYDROCOM UW COMMUNICATION SYSTEM, HCOM 1001000	NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT II 3.6.2	COMMERCIAL	AMRON INTER- NATIONAL DIVING SUPPLY, INC.	AMCOM III MODEL 2830/24/28FDH	MODEL 2830/24 IS 3 DIVER SYSTEM. PN# 28FDH IS WIRELESS TENDER/SUPERVISOR HEADSET SYSTEM. HELMETS MUST BE OUTFITTED WITH AMRON EARPHONES AND MICS., NOT COMPATIBLE WITH HDROCOM OR HELLE EARPHONES/MICS.

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SURFACE SUPPLIED DIVING EQUIPMENT

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
<b>3.6 Communications Systems and Accessories (Continued)</b>				
CAT II 3.6.3	7H-5830-01-117-5432 APL:272540002	HELLE ENGINEERING INC.	HELIUM SPEECH UNSCRAMBLER 3315S	
CAT II 3.6.3.1	COMMERCIAL	AMRON INTERNATIONAL DIVING SUPPLY, INC	AMCOM II HELIUM SPEECH UNSCRAMBLER 2825/24/26 AC POWER 28/26 BATTERY POWERED	
CAT II 3.6.4	7H-4220-01-043-5339	HELLE ENGINEERING INC.	HELIUM SPEECH UNSCRAMBLER, (3315)	
CAT II 3.6.5	COMMERCIAL & STOCK ITEM	DIVING SYSTEMS INTERNATIONAL	MIC / EARPHONE SET PN# 515-030	DSI PN# 515-030 INCLUDES EARPHONES & MIC. RIGHT EARPHONE IS PN# 515-005 / NSN 5965-01-263-6966, LEFT EARPHONE IS PN# 515-006 / NSN 5965-01-263-6965, MIC IS PN# 515-009 / NSN 5965-00-843-9957.
CAT II 3.6.6	COMMERCIAL	EFCOM	DAR 1000 MOD 2 DYNAMIC HEAD PHONES	FOR RECOMPRESSION CHAMBER USE ONLY. NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT II 3.6.7	1H 5965-01-119-8682	HELLE ENGINEERING LTD	MICROPHONE, SET 3455, 10780, 10782	NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT II 3.6.8	1HD0000-LL-CB1-4624	OCEAN TECHNOLOGY SYSTEMS	1 PMC MICROPHONE	FOR USE WITH INTERSPIRO AGA DIVATOR II FFM.
CAT II 3.6.9	COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS	SDV 16 MICROPHONE	FOR USE WITH INTERSPIRO AGA DIVATOR II FFM AND CLOSED CIRCUIT RIG.
CAT II 3.6.10	COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS	M 14 MICROPHONE	
CAT II 3.6.11	9N-5965-00-843-9957 APL:990010071	OCEAN TECHNOLOGY SYSTEMS	M 101/A1C MICROPHONE, ELEMENT	COMPATIBLE WITH HYDROCOM SYSTEM ONLY.
CAT II 3.6.12	COMMERCIAL	STRENGTH/ COMMUNICATIONS CABLE/NEDU CODE 03D	STRENGTH/ COMMUNICATIONS CABLE	NAVSEA DWG's 592-5939961, 592-5939962 AND 592-5939963 REFER.

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 004  
RECALL DEVICES

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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4.1 Recall/One-Way Communicators

CAT II 4.1.1	COMMERCIAL	BENTOS, INC.	MODEL 4501B DIVER RECALL SYSTEM	WATERBORNE DIVERS SHOULD REMAIN SIX FEET FROM TRANSDUCER.
CAT II 4.1.2	COMMERCIAL	HELLE ENGINEERING LTD	MODEL 3510 HELLE BROADCASTER	
CAT II 4.1.3	COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS)	DRS-100 AND DRS- 100B DIVER AUDIO RECALL/HYDROPHONE SYSTEM	MODEL DRS-100 NO LONGER AUTHORIZED FOR PURCHASE, BUT AUTHORIZED FOR CONTINUED USE. MODEL DRS-100B REPLACES MODEL DRS-100.
CAT II 4.1.4	COMMERCIAL	OCEAN ENGINEERING ENTERPRISES	DSD-6E ACOUSTIC DIVER SIGNALING DEVICE	IF THE DSD-6E IS TO BE USED IN AN ENVIRONMENT IN WHICH FLAMMABLE GASES ARE PRESENT, INSTALL A MECHANICAL SWITCH ON THE POSITIVE BATTERY LEAD TO PRECLUDE TERMINAL SPARKING. DISCUSSIONS WITH THE MANUFACTURER INDICATE THAT A SWITCH OPTION MAY BE OFFERED ON FUTURE MODELS. OEE, 1638 COTTONWOOD DRIVE, NORTH CANTON, OHIO 44720, (330) 896-8816

4.2 Recall/One-Way Explosive Communicators

CAT II 4.2.1	2T-1370-01-251-5792	PROPELLEX CORP. EDWARDSVILLE, IL	MK 137 MOD 0, AUDIBLE RECALL DEVICE (ARD)	NALC 3W92
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4.3 Through Water Communicators

CAT III 4.3.1	COMMERCIAL	EFCOM	SC-125M/SC-120M/SC 100M SYSTEM	NO LONGER AUTHORIZED FOR PROCUREMENT BUT AUTHORIZED FOR CONTINUED USE. COMPATIBLE WITH AGA FULL FACE MASK.
CAT III 4.3.2	COMMERCIAL	ORCATRON MANUFACTURING LTD., DELTA, BC CAN	SCUBAPHONE ORCA RT-2000S SYSTEM	COMPATIBLE WITH INTERSPIRO DIVATOR II FULL FACE MASK.
CAT III 4.3.3	3H 5820-01-346-4523 APL:990010097	OCEAN TECHNOLOGY SYSTEMS (OTS)	AQUACOM SSB-1000S	BASE STATION, SINGLE SIDE BAND ACOUSTIC TRANSCEIVER
CAT III 4.3.4	COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS)	MK-2 BUDDY PHONE	COMPATIBLE WITH AGA FFM AND MK-20 IN SCUBA MODE.
CAT III 4.3.4.1	COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS)	AQUACOM SSB-2001	COMPATIBLE WITH AGA FFM AND MK 20 IN SCUBA MODE.
CAT III 4.3.4.2	COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS)	STX-100	BASE STATION FOR SSB-2001
CAT III 4.3.5	COMMERCIAL AND 1H-5820-01-346-4524 APL:990010097	OCEAN TECHNOLOGY SYSTEMS (OTS)	SSB 1000P/1001P PORTABLE TRANSCEIVER STATION	SSB 1000P IS NSN ITEM, SSB 1001P IS COMMERCIAL VERSION.
CAT III 4.3.6	COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS)	AQUACOM, CDK-5P	WALK-ABOUT HEAD PHONE ACCESSORY, CONVERTS SSB-1000D/SSB-1001 AND SSB-1000S COMBINATION TO WALK ABOUT SUPERVISOR HEAD PHONE.
CAT III 4.3.7	COMMERCIAL	SAFARE-CROUZET	ERUS-2B4D & ERUS- 2A3	URUS-2B4D IS SURFACE UNIT, URUS-2A3 IS DIVER WORN UNDER WATER UNIT.
CAT III 4.3.8	COMMERCIAL	SUBCOM	MODEL 230D/S	NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 004  
RECALL DEVICES

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
4.3 Through Water Communicators (Continued)				
CAT III 4.3.9	COMMERCIAL	DIVECOM, INC.	DIVECOM MUC-100/MUC-2000	MUC-100 IS SURFACE-TO-DIVER COM UNIT, MUC-2000 ALLOWS DIVER-DIVER AND DIVER-TO-SURFACE COMMUNICATION WHEN USED AS A SET WITH MUC-100. THE DIVECOM SC-100 SURFACE WALK-ABOUT HEAD PHONE (CAT III ITEM) MAY ALSO BE USED WITH THIS SYSTEM AS AN ACCESSORY.
CAT III 4.3.10	COMMERCIAL AND STOCK 9N-5895-01-230-7318 APL:959990002	RJE INTL. INC FORMERLY EFCOM	SCM-100M/120M/125M	PREVIOUSLY BUILT BY EFCOM. SCM-100M IS DIVER MODULE, SCM-120M IS SURFACE ACCURACY KIT, SCM-125M IS SURFACE MODULE.
CAT III 4.3.11	COMMERCIAL	ORCATRON MANUFACTURING LTD	MODEL 2000-SPPAGM SCUBA PHONE	2000-SPPAGM IS 2 DIVER, 1 SURFACE UNIT SYSTEM. 2000S IS SURFACE UNIT, 2000D IS DIVER UNIT. NATO APPROVED, COMPATIBLE WITH AGA FFM.
CAT III 4.3.12	COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS	MK 2 DCI TWO DIVER RADIO SET	MK 2-DCI IS SURFACE UNIT, MK 1-D-A IS DIVER UNIT, MK 1-D/S IS WALK ABOUT MIC UNIT. COMPATIBLE WITH AGA FFM. <b>THE MK 1 DCI SURFACE UNIT IS NO LONGER MANUFACTURED.</b>
CAT III 4.3.13	COMMERCIAL OR 3H-5820-01-346-4522 APL:990010097	OCEAN TECHNOLOGY SYSTEMS	AQUACOM SSB 1000D OR SSB-1001/SSB-1001B	SSB 1000D IS OLD DESIGNATION OF SSB-1001. COMPATIBLE WITH AGA FFM.
CAT III 4.3.14	COMMERCIAL	SUBCOM	230D	NO LONGER AUTHORIZED FOR PURCHASE, BUT AUTHORIZED FOR CONTINUED USE.

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 005  
DIVER'S BREATHING AIR & MIXED GAS COMPRESSORS

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
<b>5.1 HEO2, O2 Pump Transfer Systems</b>				
CAT I 5.1.1	COMMERCIAL AND 1H-3655-01-042-3633	HASKEL	BOOSTER PUMP, OXYGEN 26968/55016/55312	NOT FOR PERMANENT INSTALLATION ABOARD SHIP, FOR PORTABLE USE ONLY. NSN ITEM IS MODEL - 26968.
CAT I 5.1.2	COMMERCIAL OR 7H- 4220-01-214-7597 APL:990010051	HASKEL	GAS TRANSFER SYSTEM 5367002	PORTABLE UNIT, NOT FOR PERMANENT INSTALLATION ON BOARD SHIP. TWO INDEPENDENT BOOSTER SYSTEMS, (1) O2 & (1) HEO2.
CAT I 5.1.3	COMMERCIAL APL: 990010016	AMINCO	O2 TRANSFER PUMP AOC 250 & OA 25	
CAT I 5.1.5	COMMERCIAL	PPI DIVISION, THE DURIRON COMPANY, INC.	O2 TRANSFER PUMP 1040-A 3081M	PPI PUMP MODIFIED BY FLUITRON

**DIVING AIR COMPRESSOR NOTES:** (1) DIVING AIR COMPRESSORS USED TO PROVIDE AIR FOR AFLOAT OR ASHORE DIVING AND/OR HYPERBARIC FACILITIES MAY BE EITHER OIL FREE DESIGN OR SUITABLE FOR USE WITH APPROVED LUBRICANTS.

(2) ALL DIVING COMPRESSORS SHALL BE MULTI-STAGE TYPE WITH INTER COOLER BETWEEN EACH STAGE AND BE FITTED WITH AN APPROPRIATE AIR PURIFICATION/FILTRATION SYSTEM LISTED IN SECTIONS 6.1 OR 6.2 OF THIS DOCUMENT.

(3) PRIME MOVER MAY BE; DIESEL, GASOLINE OR ELECTRIC AS FITS THE SPECIFIC OPERATIONAL REQUIREMENTS OF THE UNIT EMPLOYING THE COMPRESSOR. FOR ELECTRICAL DRIVEN COMPRESSORS THAT MAY BE EMPLOYED OUT DOORS, THE MOTOR CASING SYSTEM SHALL MEET MIL-M-170769E.

(4) ALL DIVING AIR COMPRESSORS SHOULD HAVE THE FOLLOWING BASIC FEATURES: DRY ELEMENT INLET FILTER, MOISTURE SEPARATOR OR AIR PURIFICATION SYSTEM; OIL PRESSURE GAUGE; PRESSURE RELIEF VALVE FOR EACH COMPRESSOR STAGE; LOW OIL PRESSURE SHUTDOWN SWITCH; AUTOMATIC UN-LOADED; AUTOMATIC CONDENSATE DRAIN CAPABILITY; DISCHARGE CHECK VALVE; AND BELT/PULLEY GUARDS.

(5) FOR COMPRESSORS EQUIPPED WITH A VOLUME TANK, THAT TANK SHALL BE BUILT TO AND BE STAMPED IN ACCORDANCE WITH ASME SECTION VIII DIVISION 1 STANDARDS.

(6) ALL HIGH PRESSURE COMPRESSORS (SECTIONS 5.2 & 5.3) SHOULD ALSO BE EQUIPPED WITH: PRESSURE GAUGE FOR EACH STAGE, AFTER COOLER; HIGH TEMPERATURE SHUTDOWN SWITCH, HOUR-METER AND BACK PRESSURE REGULATOR.

(7) PER GENSPECS FOR NAVAL SHIPS S9AA-AA-SPN-010/GENSPEC; FITTINGS CONTAINING CADMIUM (I.E., PLATED FITTINGS AND BOLTS) ARE NOT AUTHORIZED IN SYSTEMS WHERE THE POTENTIAL EXISTS FOR TEMPERATURES OF 400 DEGREES F AND HIGHER, AND MAY COME INTO CONTACT WITH PETROLEUM PRODUCTS. WHEN PURCHASING A DIVING AIR COMPRESSOR SPECIFY THAT ALL FITTINGS/BOLTS BE STAINLESS OR OTHER SUITABLE MATERIAL THAT IS NOT CADMIUM.

(8) IF A COMPRESSOR SYSTEM IS NOT LISTED HEREIN AND A COMMAND DESIRES TO GAIN AUTHORIZATION FOR USE, SUBMIT A FORMAL REQUEST TO NAVSEASYS COM CODE 00C3, INCLUDE COMPLETE COPIES OF MANUFACTURER'S SPECIFICATIONS AND OPERATING PROCEDURES.

(9) ALL COMPRESSORS MUST BE VERIFIED AS PROVIDING DIVERS QUALITY AIR PRIOR TO CONNECTING INTO A DLSS OR USE IN CHARGING DLSS AIR FLASKS.

**5.2 5000 PSIG H. P. Air Compressors**

CAT I 5.2.1	COMMERCIAL AND 1H-4310-01-373-1666	MAKO	MODEL 5436/H, 5000 PSI 84 SCFM	GENERAL NOTES APPLY AND MODEL 5436 IS 5,000 PSI VERSION, 5436H DENOTES 6,000 PSI VERSION.
CAT I 5.2.2	COMMERCIAL	MAKO	5407BA-D/E/G, 5000 PSI 18.7 SCFM	GENERAL NOTES APPLY AND D = DIESEL, E = ELECTRIC, G = GASOLINE
CAT I 5.2.3	COMMERCIAL AND 9C-4310-00-267-1346	MAKO	BAM 09 & 9700-5409, 5000 30.6 SCFM	GENERAL NOTES APPLY AND DIFFERENT MODEL NUMBERS DENOTE SAME HPAC, DIFFERENT CABINET OPTIONS
CAT I 5.2.4	9E-4310-01-291-8028 (US ARMY ITEM)	BAUER	K-20, 5000 PSI, 22 SCFM	GENERAL NOTES APPLY AND THIS COMPRESSOR IS AUTHORIZED FOR U.S. ARMY USE ONLY.
CAT I 5.2.4.1	COMMERCIAL	MAKO	5417, 5000 PSI, 44 CFM	GENERAL NOTES APPLY.



DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 005  
DIVER'S BREATHING AIR & MIXED GAS COMPRESSORS

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
5.2 5000 PSIG H. P. Air Compressors (Continued)				
CAT I 5.2.5	COMMERCIAL	MAKO	5415, 5000 PSI, 32 SCFM	GENERAL NOTES APPLY. NO LONGER PRODUCED BUT PARTS STILL AVAILABLE. REPLACED BY THE MAKO 5417
CAT I 5.2.6	COMMERCIAL	BAUER	MODEL (ELECTRIC), K220D(DIESEL) 30 CFM	GENERAL NOTES APPLY
CAT I 5.2.7	COMMERCIAL	RIX INDUSTRIES	MODEL 4VX, 5000 PSI/27 SCFM	GENERAL NOTES APPLY
CAT I 5.2.8	COMMERCIAL	MAKO COMPRESSORS	MODEL BAM06/5406, 5000 PSI 13 SCFM	GENERAL NOTES APPLY AND MODEL NUMBERS REPRESENT SAME COMPRESSOR IN DIFFERENT CABINET PACKAGE OPTIONS.
CAT I 5.2.9	COMMERCIAL	RIX	2JS4B-150 5000 PSI, 60-100 SCFM	GENERAL NOTES APPLY AND CAN BE SET FOR 3,000, 4,500 OR 5,000 PSI SERVICE.
CAT I 5.2.10	COMMERCIAL & 9E-4310-01-247-2584	BAUER	UTILUS 10-D, E & G, 5000 3.5 SCFM	GENERAL NOTES APPLY AND D = DIESEL, E = ELECTRIC, G = GASOLINE
CAT I 5.2.11	COMMERCIAL	BAUER	MARINER, MODEL E1/3,D, G, 5000 PSI, 7 SCFM	GENERAL NOTES APPLY. COMPRESSOR PREVIOUSLY RATED AS 3000 PSIG SERVICE. ENSURE ALL PIPING, FLASKS AND ASSOCIATED PRESSURE COMPONENTS ARE ALSO RATED TO 5000 PSIG SERVICE PRIOR TO USE.
CAT I 5.2.12	COMMERCIAL	MAKO	KA-7, BA-D, 5000 PSI, 8SCFM	GENERAL NOTES APPLY
5.3 4500 and 3000 PSIG H. P. Air Compressors				
CAT I 5.3.1	7H-4310-01-256-8510 APL:061050047	RIX	1S3B-6G/E (SA-6G/E) 4500/3000 PSI, 5SCFM	GENERAL NOTES APPLY, MAY BE PROCURED FOR 4500 OR 3000 PSI SERVICE, G = GASOLINE, E = ELECTRIC POWERED.
CAT I 5.3.2	3HD 4310-00-165-4865 APL: 061000003	BAUER	UTILUS-G/E 3000 PSI, 4 SCFM	GENERAL NOTES APPLY, G = GASOLINE, E = ELECTRIC POWERED.
CAT I 5.3.3	COMMERCIAL	BAUER	MARINER, MODEL E1/3, D, G 3000 PSI, 7 SCFM	GENERAL NOTES APPLY. E1 = SINGLE PHASE ELECTRIC, E3 = 3 PHASE ELECTRIC, D = DIESEL, G = GASOLINE..
CAT I 5.3.4	COMMERCIAL	HARDI-TYNES	3M-133 3000 PSI, 8 SCFM	GENERAL NOTES APPLY.
CAT I 5.3.5	9C-4310-177-6350	BAUER	KA-14, K14 3000 PSI, 8 SCFM	GENERAL NOTES APPLY.
CAT I 5.3.6	COMMERCIAL	MAKO	K14 3000 PSI, 8.4 SCFM	NO LONGER AUTHORIZED FOR PURCHASE, BUT AUTHORIZED FOR CONTINUED USE.
CAT I 5.3.7	COMMERCIAL	MAKO	K15 3000 PSI, 14 SCFM	NO LONGER AUTHORIZED FOR PURCHASE, BUT AUTHORIZED FOR CONTINUED USE.
CAT I 5.3.8	1H-4310-01-105-3074	INGERSOLL RAND	10T2 3000 PSI, 14 SCFM	GENERAL NOTES APPLY. MK 31 MOD 0, APL: 069990020
CAT I 5.3.9	9C-4310-01-135-0075 AND COMMERCIAL	BAUER	K15/VT20 3000 PSI, 17 SCFM	GENERAL NOTES APPLY. VT20 IS VARIATION OF BASIC K15 HPAC.
CAT I 5.3.10	COMMERCIAL	RIX	3K3B-44 3000 PSI, 20/30 SCFM	GENERAL NOTES APPLY. 20 OR 30 SCFM IS DEPENDENT ON PRIME MOVER. MAY BE USED FOR 4,500 PSI SERVICE.

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 005  
DIVER'S BREATHING AIR & MIXED GAS COMPRESSORS

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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5.3 4500 and 3000 PSIG H. P. Air Compressors (Continued)

CAT I 5.3.11	9C-4310-01-172-3140	INGERSOLL RAND	4R15,15T4 3000 PSI, 20 SCFM	GENERAL NOTES APPLY
CAT I 5.3.12	9E-4310-01-227-1408	BAUER	K-20-D 3000 PSI, 22 SCFM	THIS COMPRESSOR IS THE 3000 PSI NAVY VERSION OF ITEM # 5.2.4. THIS VERSION DOES NOT HAVE THE MODIFICATIONS NECESSARY FOR 5000 PSI SERVICE. NOTE THE COMPRESSORS HAVE DIFFERENT STOCK NUMBERS.
CAT I 5.3.13	COMMERCIAL	BAUER	FS34,K220 3000 PSI, 34 SCFM	GENERAL NOTES APPLY.
CAT I 5.3.14	1H-4310-00-779-5238 APL: 061900350	VARIOUS	MIL-C-18419, 3000PSI, 60 -100 SCFM	GENERAL NOTES APPLY. THESE MIL-SPEC HPACs ARE FOR PERMANENTLY INSTALLED SHIPBOARD USE.
CAT I 5.3.15	COMMERCIAL	BAUER	VARIUS E/G 3000 PSI, 2 SCFM	GENERAL NOTES APPLY, MAY BE PROCURED FOR 5000 OR 3000 PSI SERVICE, G = GASOLINE, E = ELECTRIC POWERED.
CAT I 5.3.16	COMMERCIAL	BAUER	CAPITANO 3000 PSI, 5 SCFM	
CAT I 5.3.17	COMMERCIAL H.P. COMPRESSOR	MAKO	5405 HP COMPRESSOR 3000 PSI 8 – 10 SCFM	GERERAL NOTES APPLY
CAT I 5.3.18	H.P. COMPRESSOR COMMERCIAL NSN 9C4310-01-107-8006	MAKO	KA7-DA HP COMPRESSOR 3000 PSI 5 SCFM	GERERAL NOTES APPLY

5.4 Medium and Low Pressure Air Compressors

CAT I 5.4.1	7H-4310-01-316-0406	RIX	2JS2B-300 400 PSI, 150 SCFM	GENERAL NOTES APPLY. COMPRESSOR IS OIL FREE DESIGN.
CAT I 5.4.2	9C-4310-01-098-6833 APL: 061500062	QUINCY	5120, W-5120LPH 250 PSIG, 87 SCFM	GENERAL NOTES APPLY.
CAT I 5.4.3	COMMERCIAL	AQUA AIR	AA1 325 200 PSIG, 18 SCFM	GENERAL NOTES APPLY. MAY BE USED WITH SEA 00C WRITTEN APPROVAL.
CAT I 5.4.4	COMMERCIAL	ATLAS COPCO	18LT8BE 200 PSIG, 20 SCFM	GENERAL NOTES APPLY.

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 006  
AIR PURIFICATION SYSTEMS, AIR FILTERS & FILTER ELEMENTS

6.1 Compressor Air Purification Systems

NOTE: FAILURE TO PERFORM MANUFACTURER REQUIRED MAINTENANCE CAN RESULT IN PREMATURE DLSS COMPONENT FAILURES AND POSSIBLY CAUSE DIVER INJURY. ENSURE PROPER PMS COVERAGE PRIOR TO USE.

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
CAT I 6.1.1	COMMERCIAL	MAKO	MK-420-C	300,000 FT <sup>3</sup> @ 80°F, 80 CFM @ 6000 PSI
CAT I 6.1.2	COMMERCIAL	BAUER	P-10	140,000 FT <sup>3</sup> @ 70°F, 35-40 CFM @ 5000 PSI
CAT I 6.1.3	COMMERCIAL	MAKO	MK 10-C	120,000 FT <sup>3</sup> @ 80°F, 40 CFM @ 6000 PSI
CAT I 6.1.4	COMMERCIAL	BAUER	P-5	90,000 FT <sup>3</sup> @ 70°F, 35-40 CFM @ 5000 PSI
CAT I 6.1.5	COMMERCIAL	MAKO	MK-8-C	83,000 FT <sup>3</sup> @ 80°F, 40 CFM @ 6000 PSI
CAT I 6.1.6	COMMERCIAL	INGERSOLL RAND	EAGLE 50LB083	77,600 FT <sup>3</sup> @ 80°F, 20 CFM @ 3000 PSI FOR USE WITH INGERSOLL RAND MODEL 15TH4
CAT I 6.1.7	COMMERCIAL	BAUER	P-4	60,000 FT <sup>3</sup> @ 70°F, 35-40 CFM @ 5000 PSI
CAT I 6.1.8	COMMERCIAL	MAKO	MK 5-C	57,400 FT <sup>3</sup> @ 80°F, 40 CFM @ 6000 PSI
CAT I 6.1.9	COMMERCIAL	MAKO	MK-4-C	43,000 FT <sup>3</sup> @ 80°F, 40 CFM @ 6000 PSI
CAT I 6.1.10	COMMERCIAL	BAUER	P-2	40,000 FT <sup>3</sup> @ 70°F, 35-40 CFM @ 5000 PSI
CAT I 6.1.11	COMMERCIAL	MAKO	MK 2-C	24,000 FT <sup>3</sup> @ 80°F, 40 CFM @ 6000 PSI
CAT I 6.1.12	COMMERCIAL	BAUER	P-1	15,000 FT <sup>3</sup> @ 70°F, 35-40 CFM @ 5000 PSI
CAT I 6.1.13	COMMERCIAL	MAKO	MK-1-C	9,800 FT <sup>3</sup> @ 80°F, 40 CFM @ 6000 PSI
CAT I 6.1.14	COMMERCIAL	BAUER	TRIPLEX/P-O	3,200 FT <sup>3</sup> @ 80°F, 35 CFM @ 5000 PSI

6.2 Air Filtration Systems and Filter Elements

GENERAL NOTE: USE ONLY MANUFACTURER'S RECOMMENDED FILTER ELEMENTS IN AIR FILTRATION SYSTEMS.

CAT I 6.2.1	COMMERCIAL	CONSLER	FILTER HOUSING CCP-3-3 150 PSIG	FILTER ELEMENT 11714. HOUSING NOT AUTHORIZED FOR FURTHER PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT I 6.2.2	COMMERCIAL	DELTECH	FILTER HOUSING DELGUARD 450 150 PSIG	FILTER ELEMENT 450E, 9Z-2915-00-202-5931 HOUSING NOT AUTHORIZED FOR FURTHER PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 006  
AIR PURIFICATION SYSTEMS, AIR FILTERS & FILTER ELEMENTS

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
6.2 Air Filtration Systems and Filter Elements (Continued)				
CAT I 6.2.3	COMMERCIAL	DOLLINGER	FILTER HOUSING GP-11-105 150 PSIG	FILTER ELEMENT 2-34. HOUSING NOT AUTHORIZED FOR FURTHER PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT I 6.2.4	COMMERCIAL & 9C-2940-01-274-1913	FILTERITE	FILTER HOUSING 913794-001 150 PSIG	FILTER ELEMENT RV-DUO-FN-10, 9C-4330-00-864-7737.
CAT I 6.2.5	COMMERCIAL	KING	FILTER HOUSING 2260-1 150 PSIG	FILTER ELEMENT 9326A-241 (1 REQUIRED) & ELEMENT 2430-5-6 (5 REQUIRED). HOUSING NOT AUTHORIZED FOR FURTHER PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT I 6.2.6	COMMERCIAL	PALL	FILTER HOUSING MCD1001G160 150 PSIG	FILTER ELEMENT PFS-1001-ZM. HOUSING NOT AUTHORIZED FOR FURTHER PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT I 6.2.7	COMMERCIAL	FACET/QUANTEK	FILTER HOUSING 056800-01 180 PSIG	FILTER ELEMENT 041315-12 (12 REQUIRED) AND 636446 (6 REQUIRED). ITEM 636446 (OLD PN 045800-06) IS AVAILABLE UNDER NSN 4330-01-033-7574. HOUSING NOT AUTHORIZED FOR FURTHER PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT I 6.2.8	COMMERCIAL	PALL	FILTER HOUSING CCL1001G160H13 200 PSIG	FILTER ELEMENT PFS-1001ZMH13.
CAT I 6.2.9	COMMERCIAL	ARROW	FILTER HOUSING F-518-12 250 PSIG	FILTER ELEMENT EKF518.
CAT I 6.2.10	COMMERCIAL	MONNIER	FILTER HOUSING 204-6209-8 250 PSIG	FILTER ELEMENT 26550. HOUSING NOT AUTHORIZED FOR FURTHER PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT I 6.2.11	COMMERCIAL	BALSTON	FILTER HOUSING 27/35 300 PSIG	FILTER ELEMENT IS 200-35-BX, CX WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER. PN 27/35 REPLACES OLD PN 20/35A.
CAT I 6.2.12	COMMERCIAL	BALSTON	FILTER HOUSING 27/80 300 PSIG	FILTER ELEMENT IS 200-80-BX, CX. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER. PN 27/80 REPLACES OLD PN 20/80A.
CAT I 6.2.13	COMMERCIAL	FACET	FILTER HOUSING 1735530 300 PSIG	FILTER ELEMENT CC-S11C (3 REQUIRED), ELEMENT 041315 (6 REQUIRED). SHOULD BE REPLACED WITH FILTERITE 914050 FILTER. PN CC-S11C REPLACES OLD PN 045800-10 (NSN 4330-00-983-0998). WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER.
CAT I 6.2.14	COMMERCIAL	FILTERITE	FILTER HOUSING 915140-000 300 PSIG	FILTER ELEMENT RV-DUO-FN-10. TYPE LMOVS10S-3/4, FHP. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER.
CAT I 6.2.15	COMMERCIAL	FILTERITE	FILTER HOUSING 916045-000 300 PSIG	FILTER ELEMENT RV-DUO-FN-10. TYPE LMOVS10S-3/4, HPNMS-8. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER.
CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 006  
AIR PURIFICATION SYSTEMS, AIR FILTERS & FILTER ELEMENTS

6.2 Air Filtration Systems and Filter Elements (Continued)

CAT I 6.2.16	COMMERCIAL & 4330-01-211-2266	PALL	FILTER HOUSING CCL4001G160H13 300 PSIG	FILTER ELEMENT PFS-1001-ZM. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER. PN CCL4001G160H13 REPLACES OBSOLETE PN MOC3003G320H13.
CAT I 6.2.17	COMMERCIAL	ZURN	FILTER HOUSING C50 77104 300 PSIG	FILTER ELEMENT 74635-29. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER.
CAT I 6.2.18	COMMERCIAL	FILTERITE	FILTER HOUSING 922849-001/002 400 PSIG	FILTER ELEMENT RV-DUO-FN-10, 9C-4330-00-864-7737. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER. 2" FLANGE CONNECTION PROVIDES FOR 750 SCFM FLOW FOR VERSION -001. 1 1/2" FLANGE CONNECTION PROVIDES FOR 750 SCFM FLOW FOR VERSION -002.
CAT I 6.2.19	COMMERCIAL	PALL	FILTER HOUSING CCL4002G160H13 400 PSIG	FILTER ELEMENT PFS-1001-ZM.
CAT I 6.2.20	COMMERCIAL	FILTERITE	FILTER HOUSING 913563-000 500 PSIG	FILTER ELEMENT RV-DUO-FN-10, 9C-4330-00-864-7737. TYPE LMOV1OS-3/4 HP. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER.
CAT I 6.2.21	COMMERCIAL	FILTERITE	FILTER HOUSING 924044-000 & 913794-001 500 PSIG	FILTER ELEMENT RV-DUO-FN-10, 9C-4330-00-864-7737. BOTH ARE TYPE LMOV1OS-1HPN. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER.
CAT I 6.2.22	COMMERCIAL	KAYDON	FILTER HOUSING 991 500 PSIG	FILTER ELEMENT 60L22, 60LS23. KAYDON 991 REPLACES KEENE 950-A.
CAT I 6.2.23	COMMERCIAL	BALSTON	FILTER HOUSING 20/35-801 800 PSIG	FILTER ELEMENT 200-35-BX, CX. NO LONGER AUTHORIZED FOR PROCUREMENT, AUTHORIZED FOR CONTINUED USE.
CAT I 6.2.24	COMMERCIAL	CUNO	FILTER HOUSING 1H1 3000 PSIG	FILTER ELEMENT RV-DUO-FN-10 OR PFS-1001-ZM. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER.
CAT I 6.2.25	COMMERCIAL & 4330-01-327-8379	FILTERITE	FILTER HOUSING 922193-000 3000 PSIG	FILTER ELEMENT RV-DUO-FN-10, 9C-4330-00-864-7737. TYPE 3LH10-304-3/4.
CAT I 6.2.26	COMMERCIAL & 4330-01-333-0216	FILTERITE	FILTER HOUSING 924045-000 3000 PSIG	FILTER ELEMENT RV-DUO-FN-10, 9C-4330-00-864-7737. TYPE 3LH10-304-3/4.
CAT I 6.2.27	COMMERCIAL	FILTERITE	FILTER HOUSING 924364-000 3000 PSIG	FILTER ELEMENT RV-DUO-FN-10, 9C-4330-00-864-7737. TYPE 3LH10-1/2BW-USN.

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 006  
AIR PURIFICATION SYSTEMS, AIR FILTERS & FILTER ELEMENTS

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
<b>6.2 Air Filtration Systems and Filter Elements (Continued)</b>				
CAT I 6.2.28	COMMERCIAL	FILTERITE	FILTER HOUSING 926441-000 3000 PSIG	FILTER ELEMENT REV-DFN-10, 9C-4330-00-864-7737. TYPE 3LH10-1/2SW-USN.
CAT I 6.2.29	COMMERCIAL & 9C-4330-01-192-1139	NORMAN	FILTER HOUSING 4535A-03-PLDR2 3000 PSIG	FILTER ELEMENT 535-03-PL.
CAT I 6.2.30	COMMERCIAL & 9C-4330-01-320-6047	PALL	FILTER HOUSING 5HD4886-253 5000 PSIG	FILTER ELEMENT PFS-1001-ZM.
CAT I 6.2.31	COMMERCIAL & 9C-4330-01-192-3427	PALL	FILTER HOUSING MEN9001G240H13 6000 PSIG	FILTER ELEMENT PFS-1001-ZM.

GENERAL NOTE: IN ADDITION TO THE FILTER ELEMENTS LISTED WITH THEIR RESPECTIVE FILTER HOUSINGS, THE FOLLOWING FILTER ELEMENTS ARE ALSO AUTHORIZED FOR USE.

CAT I 6.2.32	COMMERCIAL	PARKER-HANNIFIN	FILTER ELEMENT 6QP19-098	AUTHORIZED FOR SERVICE FOR SAME APPLICATIONS AS MDS100SU, PFS1001ZM & RV-DUO-FN-10 FILTER ELEMENTS.
CAT I 6.2.33	COMMERCIAL & 4310-01-061-0247	PNEUMATIC PRODUCTS	FILTER ELEMENT POS1001SU	AUTHORIZED FOR SERVICE FOR SAME APPLICATIONS AS MDS100SU, RV-DUO-FN-10 & PFS1001ZM FILTER ELEMENTS.
CAT I 6.2.34	COMMERCIAL	FILTERSOFT	FILTER ELEMENT FP19098XECU	AUTHORIZED FOR SAME APPLICATIONS AS POS1001SU, MDS100SU, RV-DUO-FN-10 & PFS1001ZM FILTER ELEMENTS.

### 6.3 SODALIME CARBON DIOXIDE ABSORBENTS

GENERAL NOTE:

CAT I 6.3.1	COMMERCIAL ITEM OR STOCK NO. 6810-01-113-0110	W. R. GRACE & CO.	HIGH PERFORMANCE SODASORB, REGULAR	THIS IS A 4 - 8 MESH SODALIME
CAT I 6.3.2	COMMERCIAL ITEM OR STOCK NO. 6810-01-113-0110	MOLECULAR PRODUCTS LTD.	SOFNOLIME 408 MESH NI L GRADE	THIS IS A 4 - 8 MESH SODALIME. PRODUCT IS DISTRIBUTED BY THE O.C. LUGO CO.
CAT I 6.3.3	COMMERCIAL ITEM OR STOCK NO. 6810-01-412-0637	MOLECULAR PRODUCTS LTD.	SOFNOLIME 812 MESH NI D GRADE	THIS IS A 10 - 14 MESH (U.S.) SODALIME. PRODUCT IS DISTRIBUTED BY THE O.C. LUGO CO.

GENERAL NOTE FOR SODALIME:: ALL SODALIMES MAY NOT BE APPROVED FOR ALL APPLICATIONS. CHECK WITH CERTIFICATION AUTHORITY OR TECHNICAL MANAUAL FOR SYSTEM PRIOR TO ORDERING OR USING A PARTICULAR PRODUCT.

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 007  
RECOMPRESSION CHAMBER INSTRUMENTATION & EQUIPMENT

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
CAT I 7.1.1	COMMERCIAL & 9C-4220-00-240-7150	SCOTT AVIATION	BIBS MASK 803600- 00/01/02/03/04	FOR RECOMPRESSION CHAMBERS WITHOUT BUILT-IN OVERBOARD DUMP CAPABILITY. PART # 803600 (SERIES) REPLACES PREVIOUS PN 800931.
CAT I 7.1.2	COMMERCIAL & 1H-4240-01-233-6639 1H-1940-00-219-6370	SCOTT AVIATION	BIBS MASK 801238- 00/01/02/03/04	PN 801238-00 / 1H-4240-01-233-6639 IS A BASIC ASSEMBLY. PN 801238-01 / 1H-1940-01-219-6370 ASSEMBLY WITHOUT PRESSURE REGULATOR. OTHER COMBINATIONS 03/04 AUTHORIZED FOR COMMERCIAL PURCHASE.
CAT I 7.1.3	COMMERCIAL & 9E-4220-01-173-5384 9C-4220-01-173-5358	SCOTT AVIATION	VAK II, 803139-00- 01/02/03/04, 803139-01- 01/02/03/04	PART NUMBER 803139-01-02, 9E-4220-01-173-5384 IS BASIC ASSEMBLY WITH MEDIUM FACE SEAL. PART NUMBER 803139-01-03, 9C-4220-01-173-5385 IS ASSEMBLY WITH LONG FACE SEAL. OTHER VERSIONS ARE AUTHORIZED FOR COMMERCIAL PURCHASE.
CAT II 7.1.4	9C-4210-01-316-0211	AMRON CORP.	FIRE EXTINGUISHER, MODEL 240	AMRON MODEL 240 MANUFACTURED WITH RELIEF VALVE AND PRESSURE GAUGE SPECIFICALLY FOR HYPERBARIC SERVICE.
CAT II 7.1.5	COMMERCIAL	3D INSTRUMENTS	PRESSURE COMPARISON DEVICE, 8106-100/ VACUUM -60 PSI, 8103-100/ 0-150 PSI, 8105-300/ 0-3000 PSI	USE ONLY DISTILLED WATER AS HYDRAULIC MEDIUM FOR GAUGE COMPARISON TO PREVENT GAUGE CONTAMINATION. FOR COMPARISON ONLY, NOT SUITABLE FOR CALIBRATION.
CAT II 7.1.6	COMMERCIAL	ANALOX	TEMP MONITOR, ANALOX 4000 SA1A14B1P/ SA1A14A1P	SA1A14B1P READS IN DEGREES FAHRENHEIT. SA1A14A1P READS IN DEGREES CENTIGRADE.
CAT II 7.1.7	COMMERCIAL	COLE PARMER	TEMP MONITOR, TYPE J-K8521-02	
CAT II 7.1.8	TEMP MONITOR, COMMERCIAL	ANALOGIC CORP.	TEMP MONITOR, MEASUROMETER II	
CAT II 7.1.9	COMMERCIAL & 8415-01-289-9707 GEL STRIPS: 8415-01- 289-9796	STEELE, INC.	COOLING VEST, SA1140- FR	COOLING VESTS SHOULD BE CONSIDERED FOR CHAMBERS IN WHICH A HEAT PROBLEM MIGHT REASONABLY OCCUR, BASED ON THE OPERATIONAL ENVIRONMENT AND LEVEL OF INTERNAL & EXTERNAL CHAMBER TEMPERATURE CONTROL AVAILABLE, i.e., HEATER/CHILLER SYSTEM, AIR CONDITIONED SHELTER, EXTERNAL WATER DELUGE, ETC. GEL STRIPS, PN: SA1149/NSN 8415-01-289-9796 ARE ALSO REQUIRED FOR THIS SYSTEM.
CAT I 7.1.10	COMMERCIAL	AMRON INTERNATIONAL	OXYGEN TREATMENT PANEL, MODEL 8890	AUTHORIZED FOR FITTED FACILITY RECOMPRESSION CHAMBERS ONLY, <u>NOT FOR USE</u> IN PORTABLE RECOMPRESSION CHAMBERS. FOR USE IN HYPERBARIC CHAMBERS DURING TREATMENTS. AUTHORIZED WITH FOLLOWING ACCESSORIES: 1. OXYGEN THERAPY HOOD (SL-1002) 2. OXYGEN THERAPY HOOD (MODEL 8891) 3. NECK SEAL WITH MOUNT RING (SL-1001) 4. HUMIDIFIER (8890-0063)
CAT II 7.1.11	COMMERCIAL	OMNIGLOW CORP. NOVATO, CA	PART NUMBER 9-27021 CYALUME NIGHT STICKS (CHMLT)	CHMLTs AUTHORIZED AS AN EMERGENCY LIGHTING SOURCE IN HYPERBARIC CHAMBERS. DO NOT STORE CHMLTs IN CHAMBERS; INSTEAD, THEY SHOULD BE PLACED IN A TREATMENT CHAMBER ONLY WHEN NEEDED TO PROVIDE ILLUMINATION DURING A TREATMENT.
CAT II 7.1.12	COMMERCIAL	AMRON	9100 ICS CHAMBER CONDITIONING UNIT	P/N 9100RMK IS THE AUTHORIZED REPLACEMENT MOTOR KIT.

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 008  
GAS ANALYSIS EQUIPMENT

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
CAT II 8.1.1	COMMERCIAL & NSN ITEM 9G-6665-00-710-7815	DRAEGER PUMP	CARBON DIOXIDE ANALYZER HAND PUMP MODEL 21, 31 & ACCURA	NSN ITEM IS MODEL 31.
CAT II 8.1.2	COMMERCIAL & NSN ITEM 9G-6665-00-769-0945	DRAEGER CO2 TUBE	CO2 COLORMATIC TUBE .1 TO 6% RANGE,	
CAT II 8.1.3	COMMERCIAL ITEM	DRAEGER	COLORMETRIC GAS TUBES VARIOUS RANGES	COLORMETRIC TUBES MAY BE PURCHASED AS REQUIRED TO MEET LOCAL GAS AND VAPOR ANALYSIS REQUIREMENTS.
CAT II 8.1.4	COMMERCIAL ITEM	AMRON	CARBON DIOXIDE MONITOR, ANALOX 5000/5001-USN	THE 0055S-USN VERSION OF THIS MONITOR IS NO LONGER MANUFACTURED, BUT AUTHORIZED FOR CONTINUED USE.
CAT II 8.1.5	COMMERCIAL & NSN ITEM	TELEDYNE	OXYGEN ANALYZER PORTABLE 320 A/B/RC	NICAD RECHARGEABLE BATTERIES <u>SHALL NOT</u> BE USED INSIDE RECOMPRESSION CHAMBERS.
CAT II 8.1.6	COMMERCIAL & NSN ITEM 9L-6630-01-231-7227 APL: 461400004	TELEDYNE	OXYGEN ANALYZER 326 (SERIES)	NSN MODEL IS 326RB.
CAT II 8.1.7	COMMERCIAL ITEM	ANALOX	OXYGEN ANALYZER SERIES 1000	CONFIGURATIONS MAY BE TAKEN FROM AMRON SERIES 1000 ORDERING MATRIX
CAT II 8.1.8	OXYGEN ANALYZER, COMMERCIAL	TELEDYNE	TELEDYNE TED 60-T	NICAD RECHARGEABLE BATTERIES <u>SHALL NOT</u> BE USED INSIDE RECOMPRESSION CHAMBERS.
CAT II 8.1.9	OXYGEN ANALYZER, COMMERCIAL	ANALOX	ANALOX 100M MINI O2 PORTABLE O2 ANALYZER	DESIGNED TO VERIFY OXYGEN LEVELS IN NITROX AND HELIOX CYLINDERS, MONITOR COMPRESSOR OUTPUT FOR O2 LEVELS IN DIVING CHAMBERS, AND IN OTHER MEDICAL APPLICATIONS.
CAT II 8.1.10	CO2 ANALYZER COMMERCIAL	AMRON INTERNATIONAL	ANOLOX (501) MINI-CO2 PORTABLE CARBON DIOXIDE ANALYZER	OPERATES UNDER TWO RANGES: 0.1 PERCENT TO 5 PERCENT CO2, 0.01 PERCENT TO 2 PERCENT CO2. DIGITAL READOUT WITH AUDIBLE ALARM. WATER RESISTANT, RECHARGEABLE BATTERIES.
CAT II 8.1.11	CO2 ANALYZER COMMERCIAL	GEOTECHNICAL INSTRUMENTS INC.	ANAGAS MODEL HB 1.1A	MEASURES CO2 UP TO 2.5 PERCENT OF SEV AT 1 TO 6 ATMOSPHERES ABSOLUTE (ATA). THE ANAGAS MODEL HB 1.1A IS A SPECIFICALLY MODIFIED UNIT FOR NAVY USE, AND IS DESIGNED FOR USE INSIDE CHAMBERS USE IN HIGH HUMIDITY, I.E., DDS. NOTE: ONLY THE ANAGAS MODEL HB 1.1A (ID'D BY A BLUE CASE) IS AUTHORIZED.
CAT II 8.1.12	CO2 MONITOR, COMMERCIAL	ANALOX	MODEL 5D	FIXED INSTALLATION OPERATION UNDER NORMAL ATMOSPHERIC PRESSURE (1 ATA) CONDITIONS. ORDERED IN 1 OF 9 RANGE LIMITS AND 1 OF 2 RANGE MEASUREMENTS (PPM OR %). 2000,5000 or 10000 PPM OR 1,2,5,10,20 or 100%. AUDIBLE ALARM. LCD DISPLAYS. REMOTE ALARM REPEATER.
CAT II 8.1.13	CO MONITOR, COMMERCIAL	ANALOX	MODEL 3D	FIXED INSTALLATION OPERATION UNDER NORMAL ATMOSPHERIC PRESSURE (1 ATA) CONDITIONS. RANGE OF MEASUREMENT CAN BE SPECIFIED AT TIME OF ORDERING. AUDIBLE ALARM. LCD DISPLAY.



DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 009  
DIVER'S UNDERWATER TOOLS

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
<b>9.1 Portable Ground Fault Interrupters</b>				
CAT II 9.1.1	COMMERCIAL	FLUID KINETICS	PN 4501-02	FLUID KINETICS, PROVEN UNDERWATER TECHNOLOGY 4050 MARKET STREET, VENTURA, CA 93003 NAVSEA CODE 00C5 IS PROGRAM MANAGER FOR GFI's, COMMERCIAL (703) 607-2761, DSN 327-2761. IT IS IMPORTANT TO NOTE THAT USE OF AN EXTERNAL GFI IN A SYSTEM WITH AN INTERNAL GFI OR POWER SUPPLY WHICH IS CONNECTED TO A GFI CAN RESULT IN NULLIFYING THE ABILITY OF THE GFI TO OPERATE. COMPLY WITH THE ELECTRICAL SAFETY SECTION OF THE USN DIVING MANUAL.
CAT II 9.1.2	COMMERCIAL	FLUID KINETICS	ARCTIC GFI, 2.5 kW	NAVSEA CODE 00C5 IS PROGRAM MANAGER FOR GFI's, COMMERCIAL (703) 607-2761, DSN 327-2761. IT IS IMPORTANT TO NOTE THAT USE OF AN EXTERNAL GFI IN A SYSTEM WITH AN INTERNAL GFI OR POWER SUPPLY WHICH IS CONNECTED TO A GFI CAN RESULT IN NULLIFYING THE ABILITY OF THE GFI TO OPERATE. COMPLY WITH THE ELECTRICAL SAFETY SECTION OF THE USN DIVING MANUAL.
CAT II 9.1.3	COMMERCIAL	DANIEL WOODHEAD COMPANY	1670-PORTABLE 1680-WALL MOUNTED	NO LONGER AUTHORIZED FOR PURCHASE, BUT AUTHORIZED FOR CONTINUED USE. SPECIAL WIRING MODIFICATION REQUIRED FOR USE WITH UNGROUNDED POWER SYSTEMS. NAVSEA CODE 00C5 IS PROGRAM MANAGER FOR GFI's, COMMERCIAL (703) 607-2761, DSN 327-2761. IT IS IMPORTANT TO NOTE THAT USE OF AN EXTERNAL GFI IN A SYSTEM WITH AN INTERNAL GFI OR POWER SUPPLY WHICH IS CONNECTED TO A GFI CAN RESULT IN NULLIFYING THE ABILITY OF THE GFI TO OPERATE. COMPLY WITH THE ELECTRICAL SAFETY SECTION OF THE USN DIVING MANUAL.

**9.2 Photographic and Video Equipment**

GENERAL NOTE: BATTERY POWERED VIDEO EQUIPMENT IS AUTHORIZED AS DIVER PREFERENCE CAT III FOR IN-WATER APPLICATIONS. VIDEO EQUIPMENT IS NOT CAT III FOR INSTALLATION IN HYPERBARIC CHAMBERS.

CAT III 9.2.1	COMMERCIAL	35MM CAMERA LEICA	UNDERWATER 35 MM	MANUALLY OPERATED.
CAT III 9.2.2	COMMERCIAL 9G-6720-01-212-3678	35 MM CAMERA NIKON, INC	V, FIVE, IV/V(COMMERCIAL) NIKONOS V, CAMERA, STILL PICTURE (STOCK SYSTEM)	MANUALLY OPERATED BATTERY ASSISTED BATTERY POWERED
CAT III 9.2.3	COMMERCIAL	LIGHT METER SEKONIC	N/A	BATTERY ASSISTED/BATTERY POWERED
CAT III 9.2.4	COMMERCIAL	ELECTRONIC FLASH SUBSEA	MK 150	BATTERY ASSISTED/BATTERY POWERED
CAT III 9.2.5	COMMERCIAL	STROBE NIKONOS	SB 102, SB 103	BATTERY ASSISTED/BATTERY POWERED
CAT III 9.2.6	COMMERCIAL	MOTION PICTURE CAMERA TAYLOR PARKER, INC.	DR 58 DBM 5 (U/W HIGH SPEED MOTION PICTURE CAMERA	BATTERY ASSISTED/BATTERY POWERED

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
SECTION 009  
DIVER'S UNDERWATER TOOLS

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
9.2 Photographic and Video Equipment (Continued)				
CAT II 9.2.7	COMMERCIAL	TELEVISION, COLOR SYSTEM HYDROVISION INTERNATIONAL	HYDRO COLOR TC-181	NO LONGER MANUFACTURED BUT AUTHORIZED FOR USE.
CAT II 9.2.8	COMMERCIAL	DIVER HELMET MOUNT CAMERA LIGHT ASSEMBLY	SIMRAD OSPREY DWG 082-0534	THIS ITEM REPLACES THE CAMERA/LIGHT ASSEMBLY ON THE EXISTING DIVER UNDERWATER COLOR TV SYSTEM (DUCTS). IT IS USED IN CONJUNCTION WITH THE DUCTS SCU, AND REQUIRES AN ADAPTER FOR THE DUCTS UMBILICAL. IT IS SMALL ENOUGH TO BE HELMET MOUNTED. THE SYSTEM ALSO INCLUDES A LIGHT, DWG 998-2002 REV D (-1 VERSION) AND CABLE ADAPTER DWG 082-0530 REV A. THIS ITEM REPLACES DWG 1365-9999 REV 0.
CAT II 9.2.9	COMMERCIAL	SIMRAD OSPREY UW TV SYSTEM	DUCT II DWG 082-0500	THIS IS A FOLLOW ON TO DUCT I SYSTEM WHICH REMAINS AUTHORIZED FOR USE BUT IS NO LONGER MANUFACTURED.
CAT II 9.2.11	S-TRON DWG 110000 REV A	TELEVISION, COLOR SYSTEM S-TRON	DUCTS I, DIVER UNDERWATER COLOR TELEVISION SYSTEM	SYSTEM INCLUDES SURFACE CONTROL UNIT (SCU), CAMERA, LIGHT AND UMBILICAL. NO LONGER MANUFACTURED BUT AUTHORIZED FOR USE.
CAT II 9.2.12	COMMERCIAL APL: 990010085	TELEVISION, COLOR SYSTEM, SUB-SEA	SEA BEE II,2D, CM-55	NO LONGER MANUFACTURED BUT AUTHORIZED FOR USE.
CAT III 9.2.13	COMMERCIALLY AVAILABLE	VIDEO, U/W DIVER PREFERENCE SONY WITH SONY OR AQUAVISION HOUSING	HANDY CAM 8	BATTERY POWERED VIDEO EQUIPMENT IS AUTHORIZED AS CAT III ITEMS. ANY SYSTEM USING UMBILICAL POWER SUPPLY REQUIRES SPECIFIC AUTHORIZATION. (NOT AUTHORIZED FOR HYPERBARIC CHAMBER USE)
CAT II 9.2.14	COMMERCIALLY AVAILABLE	TELEVISION SYSTEM MPK-60	UNDERWATER TV SYSTEM SELF CONTAINED	
CAT II 9.2.15	COMMERCIALLY AVAILABLE	DC POWER SUPPLY SONNICHEN	A-200	
CAT II 9.2.16	COMMERCIALLY AVAILABLE 9G-6130-01-136-7781	DC POWER SUPPLY 1. ACOPIAN 2. ADVANCED TECHNOLOGY RESEARCH	W184Y1500, U28Y1500(ACOPIAN CORP.) ATR PN IS PS-28-15-M	
CAT II 9.2.17	COMMERCIALLY AVAILABLE ESSM# UW 0324	NAVSEA UNDERWATER BORESCOPE	NAVSEA DWG 6697610	THIS ITEM MUST BE POWERED AND RECEIVE GFI PROTECTION FROM THE DUCTS SURFACE CONTROL UNIT AND UMBILICAL
CAT III 9.2.18	COMMERCIAL	DEEPSEA POWER AND LIGHT SEESNAKE PIPE INSPECTION EQUIPMENT	KD-VARIOUS DEPENDENT ON REEL LENGTH	FOUR INTERCHANGEABLE REELS AND CONTROLLERS. REELS – 200' SEESNAKE, PN 744-00301-08 325' SEESNAKE, PN 744-00301-09 100' MINI SEESNAKE, PN 744-01201-01 200' MINI SEESNAKE, PN 744-01201-02 CONTROLLERS – POWER SUPPLY ONLY, PN 742-00901-01 MONITOR NO VCR, PN 742-010-001-01 MONITOR W/ VCR, PN 742-013-003-01 VIDEO SYSTEM MANAGER, PN 742-008-001-01

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE  
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CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
CAT II 9.2.19	COMMERCIAL	UNDERWATER TELEVISION SYSTEM/KONGSBERG SIMRAD	MODEL OE 9021	CONTROL UNIT MODEL OE 1261 MUST BE ORDERED WITH DUCTS II LINE INSULATION MONITOR (PART NUMBER 1263-6011) WITH TRIP CURRENT SETTINGS IAW ANU STANDARDS FOR DUCTS II. THE CONTROL UNIT MUST ALSO BE ORDERED WITH A MODIFIED POWER INPUT CORD FITTED WITH GFCI PROTECTOR (PART NUMBER 302-0053-00).

### 9.3 Tools

GENERAL NOTE: (1) DEAD MAN SWITCH REQUIRED FOR ALL HYDRAULIC OPEN-CENTER FLOW TOOLS. CONTACT NAVSEA 00C5, COM (703) 607-2761DSN 327-2761 FOR ASSISTANCE.

CAT II 9.3.1	COMMERCIALLY AVAILABLE	CABLE TRACKING SYSTEM, DIVER OPERATED FLUID KINETICS CORP	CTP 250 UNDERWATER TRACKING PROBE FBSI - 0.5 SHORE BASED SIGNAL INJECTOR	FORMERLY "WESTERN INSTRUMENTS"
CAT III 9.3.2	NCEL ITEM OR COMMERCIALLY AVAILABLE	LOCATOR, BURIED PIPE AND CHAIN NCEL OR COMMERCIALLY AVAILABLE	NFESC DWG 93-10-1F	
CAT III 9.3.3	COMMERCIALLY AVAILABLE	NAVIGATION SYSTEM, DIVER NFSEC OR COMMERCIALLY AVAILABLE	NCEL DWG 91-29-1F TO 15F OR COMMERCIALLY AVAILABLE	ELECTRICAL POWER IN WATER COMPONENTS NOT TO EXCEED 30 VDC.
CAT III 9.3.4	COMMERCIALLY AVAILABLE	PINGER/MARKER, U/W DIVER PREFERENCE	VARIOUS COMMERCIALLY AVAILABLE	BATTERY POWERED.
CAT II 9.3.5	COMMERCIALLY AVAILABLE OR NSN : 7H-5845-00-575- 4092	SONAR, HAND HELD LOCATOR FUTURONICS CORP.	JOINT ELECTRONICS TYPE DESIGNATION: AN/PQS-1D	
CAT II 9.3.6	7H-1386-01-170-4245 APL: 006900009	SONAR, AN/PQS-2A GENERAL INSTRUMENTS	1100/5001 NON-MAG OR AN/PQS-2A	
CAT III 9.3.7	COMMERCIALLY AVAILABLE IAW NAVSEA DWG 5366579	CUTTER, HYDRAULIC 9Q-5130-01-180-8939 H. K. PORTER OR DIVER PREFERENCE	45418N CUTTER HEAD WITH SWINGING KEEPER 44474N NUT SPLITTER CUTTER HEAD	
CAT II 9.3.8	COMMERCIALLY AVAILABLE	CUTTER, KERIE CABLE, THERMAL CLUCAS		FAMILIARIZATION TRAINING REQUIRED PRIOR TO USE
CAT II 9.3.9	COMMERCIALLY AVAILABLE IAW NAVSEA DWG 5366975, SNS 9G-3695-01-175-3197	CHAIN SAW, HYDRAULIC STANLEY	CS-11340	GENERAL NOTE 1 APPLIES. FAMILIARIZATION TRAINING REQUIRED PRIOR TO USE

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DIVER'S UNDERWATER TOOLS

CATEGORY/ CONTROL #	STOCK NUMBER	ITEM/ MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
CAT II 9.3.10	COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366569	CUTOFF SAW, HYDRAULIC 9Q-5130-01-177-5613 STANLEY	CO23341	GENERAL NOTE 1 APPLIES.

9.3 Tools (Cont'd)

CAT III 9.3.11	COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366568	BAND SAW, PORTABLE, HYDRAULIC NCEL	NAVSEA DWG 5366569	GENERAL NOTE 1 APPLIES.
CAT II 9.3.12	COMMERCIALY AVAILABLE	CHAIN SAW, HYDRAULIC, CONCRETE CUTTING STANLEY TOOLS	DS11515	GENERAL NOTE 1 APPLIES. SPECIAL TRAINING REQUIRED
CAT III 9.3.13	COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366577, NSN: 9Q-5130- 01-208-7755, AEL: 2- 950014055	CHIPPING HAMMER, HYDRAULIC STANLEY OR DIVER PREFERENCE	CH-18311	GENERAL NOTE 1 APPLIES. DIVER REQUIRED TO WEAR 1/4 INCH NEOPRENE WET HOOD. MAXIMUM PERMISSIBLE OPERATING TIME PER DIVER PER 24 HOUR <u>THREE</u> <u>(3) HOURS AND FORTY (40) MINUTES.</u>
CAT III 9.3.14	COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366561	COME-ALONG, 2-TON, HYDRAULIC 9Q-5130-01-177-4943 GRIP HOIST OR DIVER PREFERENCE	TU-28H-SS-2	
CAT III 9.3.15	COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366581 OR 9C-4320- 00-776-7180	DIVER-OPERATED PUMP, HYDRAULIC ENERPAC	P-80 OR OTHER SUITABLE MODELS	
CAT III 9.3.16	COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366571, NSN 9C-4320-01-182- 6911	FLOW DIVIDER, HYDRAULIC	DWG 5366571	
CAT III 9.3.17	COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366565, NSN: 9Q- 5130-01-208-7754, APL: 990010039	GRINDER, HYDRAULIC STANLEY OR DIVER PREFERENCE	GR24301	GENERAL NOTE 1 APPLIES. MAX CUMULATIVE OPERATING TIMES PER DIVER PER 24 HOURS: MK-20, 30 MINUTES; MK 21, 3 HOUR 22 MINUTES
CAT III 9.3.18	COMMERCIALY AVAILABLE IAW NAVSEA DWG 6263821	GRINDER, HYDRAULIC FAIRMONT OR DIVER PREFERENCE	HU 6935	GENERAL NOTE 1 APPLIES.
CAT III 9.3.19	NCEL IAW NAVSEA DWG 6263820	GROUT DISPENSER, EPOXY, PNEUMATIC DIVER PREFERENCE	WBS 2.260	

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CAT II 9.3.20	COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366570	HALE RESCUE TOOL, HYDRAULIC HALE HURST PERFORMANCE DIVISION	MODEL 32A AND 32B	ALSO KNOWN AS THE HURST TOOL OR JAWS OF LIFE.

9.3 Tools (Cont'd)

CAT III 9.3.21	COMMERCIALY AVAILABLE NSN: 5130- 01-334-3226	HULL CLEANING SINGLE BRUSH UNIT, HYDRAULIC STANLEY OR DIVER PREFERENCE	HB29301	
CAT III 9.3.22	COMMERCIALY AVAILABLE IAW NAVSEA DWG 789030	HYDRAULIC CONSOLE, 15 GPM MOD II DIVER PREFERENCE		
CAT III 9.3.23	COMMERCIALY AVAILABLE IAW NAVSEA DWG: 5367230, APL:990010040-2, NSN: 9Q-5130-01-204-1784	IMPACT WRENCH, HEAVY DUTY, HYDRAULIC STANLEY OR DIVER PREFERENCE	IW20360 5/8 IN.	GENERAL NOTE 1 APPLIES, MAX CUMULATIVE OPERATING TIMES PER DIVER PER 24 HOURS: MK-20, 40 MINUTES; MK 21, 1 HOUR 25 MINUTES
CAT III 9.3.24	COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366573, NSN: 9C-4320-00-965-5952 APL: 859990792	JACK RAM, HYDRAULIC ENERPAC OR DIVER PREFERENCE	RC 1010	GENERAL NOTE 1 APPLIES. LOAD LIMITED TO FIVE TONS.
CAT III 9.3.25	IAW NFESC DWG # 93- 6-1F OR COMMERCIALY AVAILABLE	LIFT SYSTEM, DIVER NCEL OR DIVER PREFERENCE	DWG 93-6-1F OR COMMERCIAL EQUIVALENT	
CAT II 9.3.26		MULTI FUNCTION TOOL SYSTEM, SEA WATER- ACTUATED NCEL	MFTS	GENERAL NOTE 1 APPLIES. THE MULTI FUNCTION TOOL SYSTEM IS A SEA WATER ACTUATED AND CONSISTS OF A POWER UNIT, A BAND SAW, A ROCK DRILL, A ROTARY IMPACT TOOL, AND A ROTARY DISK TOOL. MAX OPERATING TIME PER DIVER PER 24 HOURS: ROTARY: UNLIMITED IMPACT TOOL: 14 MIN IN METAL TANK ROCK DRILL: 1 HOUR FOR DIVER ASSISTING TO START A BIT.
CAT II 9.3.27	IAW NAVSEA DWG 6263822	PILE CUTTER, UNDERWATER, HYDRAULIC NCEL	DWG-6263822	GENERAL NOTE 1 APPLIES.
CAT III 9.3.28	IAW NAVSEA DWG 5366557	POWER SUPPLY, DIESEL HYDRAULIC NCSC AND DIVER PREFERENCE	MODEL 2	DO NOT EXCEED 2000 PSI OR 15 GPM.
CAT II 9.3.29	COMMERCIALY AVAILABLE	PORTABLE POWER SUPPLY, DIESEL HYDRAULIC, PORTACO, INC.	MK 9 MOD 0, MANUFACTURER MODEL D-17S10-15- W,.	DO NOT EXCEED 2000 PSI. PORTACO PORTABLE DIESEL HPU CAN BE USED AS AN ALTERNATIVE TO CONTROL #9.3.28 (CAT III), MOD II HPU.

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CAT III 9.3.30	IAW NAVSEA DWG 5366558	POWER SUPPLY, ELECTRIC HYDRAULIC NCSC AND DIVER PREFERENCE	MODEL 4	DO NOT EXCEED 2000 PSI OR 15 GPM.

9.3 Tools (Cont'd)

CAT III 9.3.31	COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366575, NSN: 9F- 4320-00-758-1449 APL: 523150002	PULL CYLINDER, HYDRAULIC ENTERPAC OR DIVER PREFERENCE	MODEL RD-1610	GENERAL NOTE 1 APPLIES.
CAT II 9.3.32	COMMERCIALY AVAILABLE IAW NAVSEA DWG 6263818	ROCK DRILL, HYDRAULIC STANLEY	MODEL HD20	GENERAL NOTE 1 APPLIES. MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS: MK-20 2 HOURS AND 35 MINUTES, MK21 2 HOURS AND 20 MINUTES.
CAT II 9.3.33	COMMERCIALY AVAILABLE IAW NAVSEA DWG 6263816	ROCK DRILL, HYDRAULIC STANLEY	MODEL HD45	GENERAL NOTE 1 APPLIES. MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS: MK-20 2 HOURS AND 9 MINUTES, MK21 2 HOURS AND 49 MINUTES.
CAT II 9.3.34	COMMERCIALY AVAILABLE IAW NAVSEA DWG 6263817	SINKER DRILL, HYDRAULIC STANLEY	MODEL SK58	GENERAL NOTE 1 APPLIES. MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS: MK-20 21 MINUTES, MK21 2 HOURS AND 49 MINUTES.
CAT II 9.3.35	COMMERCIALY AVAILABLE	BREAKER, HYDRAULIC, STANLEY	MODEL BR67	GENERAL NOTE 1 APPLIES. MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS: MK-20 30 MINUTES, MK-21 60 MINUTES.
CAT II 9.3.36	COMMERCIALY AVAILABLE	STUD GUN RAMSET	HD 200	USE OF THE STUD GUN IS LIMITED TO 40 SHOTS PER 24 HOUR PERIOD FOR EACH DIVER. MAY BE USED ONLY BY DIVERS TRAINED BY SEA 00C. SECURE STORAGE IS REQUIRED FOR THE STUD GUN AND THE .38 CAL ACTUATING CARTRIDGES.
CAT II 9.3.37	COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366572, NSN: 9C-4320-01-086-2873 APL: 990010043	SUMP/JETTING PUMP STANLEY	SM 22501	
CAT II 9.3.38	COMMERCIALY AVAILABLE	UNDERWATER ELECTRICAL FIELD DETECTOR FLUID KINETICS	UEFD-001	FORMERLY "WESTERN INSTRUMENTS"
CAT II 9.3.39	IAW NFESC 93-8-1F	UNDERWATER CONCRETE INSPECTION SYSTEM NFESC	REBAR LOCATOR REBOUND HAMMER ULTRASONIC TEST SYSTEM	PORTABLE GROUND FAULT INTERRUPTER REQUIRED.

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9.3 Tools (Cont'd)				
CAT II 9.3.40	COMMERCIALY AVAILABLE IAW NCSC DWG 5368233	WATER JET CLEANING TOOL, HIGH PRESSURE PARTEK	31-9300-302	DIVER REQUIRED TO WEAR 1/4 INCH NEOPRENE WET HOOD. MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS: 0 DEGREE NOZZLE: 50 MINUTES 15 DEGREES NOZZLE: 2 HOURS 50 MINUTES.
CAT II 9.3.41	COMMERCIALY AVAILABLE MODIFIED IAW NAVSEA DWG 6699567 APL:41489002 9C-4940-01-117-9056	WATER JET CLEANING, HIGH PRESSURE PUMP, BUTTERWORTH	WBD-150N-D	
CAT II 9.3.41.1	COMMERCIALY AVAILABLE, MODIFIED IAW NAVSEA DWG 6699567	WATER JET CLEANING TOOL, HIGH PRESSURE, ZERO THRUST GUN, BUTTERWORTH	31-09300-524	USED WITH ANU CONTROL #9.3.41. DIVER REQUIRED TO WEAR MK 21 MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS: 85 MINUTES.
CAT II 9.3.41.2	COMMERCIALY AVAILABLE, IAW NAVSEA DWG 6699567	WATER JET CLEANING TOOL, HIGH PRESSURE FLEXIBLE LANCE, BUTTERWORTH	431516-037	USED WITH ANU CONTROL # 9.3.41. 1/2 INCH DIAMETER, 37 FT LENGTH.
CAT II 9.3.41.3	COMMERCIALY AVAILABLE, IAW NAVSEA DWG 6699567	WATER JET CLEANING TOOL, HIGH PRESSURE FLEXIBLE LANCE, JETSTREAM	51498-25	USED WITH ANU CONTROL # 9.3.41. .335 INCH OD, 25 FT LENGTH
CAT II 9.3.42	COMMERCIALY AVAILABLE (NCEL-MODIFIED)	WATER JET CLEANING TOOL, HIGH PRESSURE FLOW INDUSTRIES	MODEL 12	DIVER REQUIRED TO WEAR 1/4 INCH NEOPRENE WET HOOD. NOTE: MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS:2 HOURS 45 MINUTES.
CAT II 9.3.43	COMMERCIALY AVAILABLE (NCEL-MODIFIED)	WATER JET CLEANING TOOL, HIGH PRESSURE DS-JETPAC		DIVER REQUIRED TO WEAR 1/4 INCH NEOPRENE WET HOOD. MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS:2 HOURS 45 MINUTES.
CAT II 9.3.44	COMMERCIALY AVAILABLE	WATER JET CLEANING TOOL, CAVITATING SEACO, INC.	CAVIJET MODELS 1-A, 1-B	DIVER REQUIRED TO WEAR 1/4 INCH NEOPRENE WET HOOD. NOTE: MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS:1-A AND 1-B 1 HOUR
CAT II 9.3.45	COMMERCIALY AVAILABLE	WATER JET CLEANING TOOL, CAVITATING SEACO, INC.	CAVIJET MODELS 1-B MOD 1	DIVER REQUIRED TO WEAR 1/4 INCH NEOPRENE WET HOOD. NOTE: MAX PERMISSIBLE OPERATING TIME PER DIVER PER 24 HOURS: 1 HOUR 40 MINUTES
CAT II 9.3.46	COMMERCIALY AVAILABLE	WATER JET CLEANING TOOL, CAVITATING DAEDALEAN	CONCAVER MODELS DAI-800-D-100A	DIVER REQUIRED TO WEAR 1/4 INCH NEOPRENE WET HOOD. NOTE: MAX PERMISSIBLE OPERATING TIME PER DIVER PER 24 HOURS: CONCAVER 1 HOUR 50 MINUTES. USE TOOL WITH EATON SYNIFLEX HOSE 3V10-04 WITH FACTORY INSTALLED SURLIN OVER JACKET. USE WITH DAEDALEAN NOZZLES (DAI #) 4010 FAN, 3510 FAN, TWIN 025, F118 (40 DEGREE FAN), OR F149 (40 DEGREE FAN). PROTECTIVE GLOVES ARE RECOMMENDED, DEPENDING ON OPERATING CONDITIONS.
CAT II 9.3.47	COMMERCIALY AVAILABLE	WATER JET CLEANING TOOL, CAVITATING SIMPSON	2245 C	PORTABLE, GASOLINE-POWERED FOR LIGHT CLEANING. THIS ITEM MAY NO LONGER BE PURCHASED, BUT AUTHORIZED FOR CONTINUED USE.

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9.3 Tools (Cont'd)				
CAT II 9.3.48	COMMERCIALLY AVAILABLE IAW NAVSEA DWG 5366567 APL 990010035, NSN: 9Q- 5130-01-212- 5492	WIRE ROPE CUTTER, HYDRAULIC H. K. PORTER	MODEL 36262N	
CAT II 9.3.49	9C-4220-01-408-1665	MK 21 WELDING LENS DIVING SYSTEMS INTERNATIONAL	DSI PART # 525-403	
CAT II (GENERAL)	COMMERCIAL OR NSN COMPONENTS	HYDRAULIC HOSES	VARIOUS PN's	HOSES REQUIRE FITTINGS AND QUICK DISCONNECTS. SEE NAVSEA S6430-AE- TED-010, "TECHNICAL DIRECTIVE FOR PIPING DEVICES, FLEXIBLE HOSE ASSEMBLIES," DTD 15 JUL 96.
CAT II 9.3.50	COMMERCIALLY AVAILABLE	HIGH-PRESSURE UMBILICAL	10' SYNIFLEX 3VIV-04-106-106-120; 100' SYNIFLEX 3VIV-04-106-1200	1/4", 10,000 PSIG
CAT II 9.3.51	COMMERCIALLY AVAILABLE, NSN: 9C 4720-00-288-9873	HOSE, NON METALLIC VARIOUS	WIRE RE-INFORCED MIL-H-24135	3/4" X 15', 2,000 PSIG. HOSES OF LONGER LENGTHS ARE PERMISSIBLE. NOTE: INCREASING HOSE LENGTHS WILL RESULT IN ADDITIONAL HYDRAULIC PRESSURE LOSS AND MAY IMPEDE HYDRAULIC TOOL PERFORMANCE. DRAWING CALLS FOR 15 FOOT INCREASING THE LENGTH OF ANY DIA.HOSE WILL AFFECT PERFORMANCE RELATIVE TO THE ORIGINAL LENGTH.
CAT II 9.3.52	COMMERCIALLY AVAILABLE	PRIMARY UMBILICAL TWIN LINED AEROQUIP	KEVLAR POLYESTER FC375-12	3/4" DIAMETER, LENGTH TO SUIT, 2000 PSIG; ITEM MAY BE SUBSTITUTED WITH HOSES MEETING SAE 100R8 SPECIFICATION. QUICK DISCONNECT COUPLINGS MUST BE COMPATIBLE WITH QUICK DISCONNECT COUPLINGS LISTED ON NAVSEA DWG 5366582.
CAT II 9.3.53	COMMERCIALLY AVAILABLE, & NSN: 9C-4930-01-173-8729 P/N 750027-102-100	REEL ASSEMBLY, HOSE	NAVSEA DWG: 6697744	4 TWIN HOSE SETS PER REEL: (2) 3/4 IN DIAMETER X 75 FT (1) 3/4 IN DIAMETER X 50 FT (1) 3/4 IN DIAMETER X 150 FT
CAT II 9.3.54	COMMERCIALLY AVAILABLE, NSN: 9C-4720-00-967-8997	TOOL WHIP HOSE, NON-METALLIC AEROQUIP	MIL-M-24135 AEROQUIP 2651-8	1/2 IN DIAMETER X 10 FT, 2000 PSIG; HOSES OF LONGER LENGTHS ARE PERMISSIBLE. NOTE: INCREASING HOSE LENGTHS WILL RESULT IN ADDITIONAL HYDRAULIC PRESSURE LOSS AND MAY IMPEDE HYDRAULIC TOOL PERFORMANCE.
CAT II 9.3.55	COMMERCIALLY AVAILABLE	TOOL WHIP HOSE, THERMOPLASTIC / AEROQUIP	AEROQUIP FC373-8	1/2 IN DIAMETER X 10 FT, 2000 PSIG; HOSES OF LONGER LENGTHS ARE PERMISSIBLE. NOTE: INCREASING HOSE LENGTHS WILL RESULT IN ADDITIONAL HYDRAULIC PRESSURE LOSS AND MAY IMPEDE HYDRAULIC TOOL PERFORMANCE. ITEM MAY BE SUBSTITUTED WITH HOSES MEETING SAE 100R7 OR SAE 100R8 SPECIFICATION.
CAT II 9.3.56	COMMERCIALLY AVAILABLE	REEL ASSEMBLY, HOSE	NAVSEA DWG: 5366582	



## DIVING EQUIPMENT AUTHORIZED FOR NAVY USE TECHNICAL SUPPORT

NOTE: In pursuing issues of maintenance, safety, operation, or authorization, NAVSEA 00C3 (703) 607-2766 may always be contacted as a starting point. The following listing contains additional points of contact for technical matters relating to equipment.

<b><i>EQUIPMENT TYPE</i></b>	<b><i>POINTS OF CONTACT</i></b>	<b><i>PHONE NUMBERS</i></b>
Buoyancy Compensators with L.P. Inflator	NEDU Code 032	(850) 230-3120/3144
CO2 Inflation Cartridges	NEDU Code 032	(850) 230-3120/3144
Diving Harness	NAVSEA 00C36 NAVSEA 00C34	(703) 607-2766
Umbilical Hose	NAVSEA 00C36 NAVSEA 00C34 NAVSEA 00C33	(703) 607-2766
Scuba Life Preservers, MK 4	CSS Code A53	(850) 235-5411
Scuba Life Preservers, Secumar	CSS Code A53	(850) 235-5772
Scuba Life Preservers, Commercial	NEDU Code 032	(850) 230-3120/3144
Diver Battery powered Lights Helmet and Handheld	NEDU Code 03D2	(850) 230-3190
Umbilical Powered Underwater Lights	CSS Code A52 NEDU Code 03D2 NAVSEA 00C5	(850) 235-4905 (850) 230-3190 (703) 607-2761
Contaminated water Dry Suits	NAVSEA 00C33 NAVSEA 00C36	(703) 607-2766
EOD MK 1 Dry Suit	CSS Code A53	(850) 235-5772
Category III Dry Suits	NAVSEA 00C32	(703) 607-2766
MK 20	CSS Code A53 CSS Code A53	(850) 235-4452 (850) 235-5411

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MK 21	CSS Code A53 CSS Code A53	(850) 235-4452 (850) 235-5411
MK 16	EODTECHDIV Code 45 NAVSEA 00C35 NAVSEA 00C42	(301) 743-6860/6859 (703) 607-2766 (703) 607-1570
LAR V (USMC)	CSS Code A53	(850) 235-5485/5184
LAR V (SPECWAR)	CSS Code A53	(850) 235-5772
LAR V (ALL)	NAVSEA 00C35 NAVSEA 00C42	(703) 607-2766 (703) 607-1570
MK 22	CSS Code A53	(850) 235-5411
MK 24 FFM	CSS Code A51 NAVSEA 00C35 NAVSEA 00C42	(850) 235-4485 (703) 607-2766 (703) 607-1570
Ground fault Interrupters	NEDU Code 03D2 CSS Code A51 CSS Code A52 NAVSEA 00C58	(850) 230-3190 (850) 235-4674 (850) 235-4905 (703) 607-2761
Recall/one-way explosive Communicators	NEDU Code 03D2	(850) 230-3190
Communication Amplifiers	NEDU Code 03D2	(850) 230-3190
Diver Module Through water communicators	NEDU Code 03D2	(850) 230-3190
HeO2, O2 Pump Transfer Systems	CSS Code A53	(850) 235-4149
EOD MK 16, HeO2 Pump Transfer Systems	EODTECHDIV Code 45	(301) 743-6860/6859
Air compressors, Purifications Systems, Filter Systems	NEDU Code 04	(850) 230-3216
Hot water equipment	NEDU Code 03D3	(850) 230-3189
Instrumentation and Chamber Accessories	NEDU Code 03D2	(850) 230-3190
Scuba Regulators	NEDU Code 032	(850) 230-3120/3144
Scuba, Full Face masks	NEDU Code 032	(850) 230-3120/3144

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### TECHNICAL SUPPORT

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Scuba Cylinders and Accessories	NAVSEA 00C32	(703) 607-2766
Scuba Accessories	NAVSEA 00C32	(703) 607-2766
Scuba Depth and Pressure Gauges	NAVSEA 00C32	(703) 607-2766